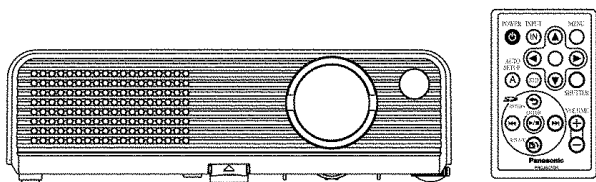


Service Manual

LCD Projector

PT-P1SDU
PT-P1SDE
PT-P1SDEA



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power supply: 100 V - 240 V AC, 50 Hz / 60 Hz

Power consumption:

180 W [During standby (when fan is stopped):

Approx. 3 W]

Amps: 2.2 A - 1.0 A

LCD panel:

Panel size (diagonal): 0.6 type (15.24 mm)

Aspect ratio: 4:3

Micro lens array: Available

Display method: 3 transparent LCD panels (RGB)

Drive method: Active matrix method

Pixels: 480 000 (800 × 600) × 3 panels

Lens:

Manual zoom (1.2x) / Manual focus

F 1.7 - 1.8, f 17.0 mm - 20.4 mm

Lamp: UHM lamp (130 W)

Luminosity:

1 500 lm

Scanning frequency (for RGB signals):

Horizontal scanning frequency: 15 kHz - 91 kHz

Vertical scanning frequency: 50 Hz - 85 Hz

Dot clock frequency: 100 MHz or less

YPbPr signals:

480i, 480p, 576i, 576p, 1 080/60i, 1 080/50i, 720/60p

Color system:

7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60 / SECAM)

Projection size:

965 mm - 7 620 mm

Throw distance:

1.2 m - 9.9 m

Optical axis shift:

4:1 (fixed)

Screen aspect ratio: 4:3

Installation:

Front / Rear / Ceiling / Desk (menu selection)

Speakers: 2.0 cm round × 1

Max. usable volume output:

0.5 W (monaural)

Connectors:

PC IN: Single-line, D-sub HD 15-pin (female)

During RGB input:

RGB: 0.7 V [p-p], 75 Ω

G.SYNC: 1.0 V [p-p], 75 Ω

HD/SYNC: TTL, automatic positive/negative polarity compatible

VD: TTL, automatic positive/negative polarity compatible

During YPbPr input:

Y: 1.0 V [p-p] (Including sync), 75 Ω

PbPr: 0.7 V [p-p], 75 Ω

VIDEO IN: Single-line, RCA pin jack

1.0 V [p-p], 75 Ω

S-VIDEO IN: Single-line, Mini DIN 4-pin

Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,

AUDIO IN: Single-Line, RCA pin jack × 2 (L-R)

0.5 V [rms]

SD memory card slot:

SD memory card

(8 MB/16 MB/ 32MB/ 64 MB/128 MB/256 MB/

512MB/1 GB/2 GB)

Cabinet:

Molded plastic (PC/ABS)

Dimensions:

Width: 234 mm

Height: 65 mm (Not including the projection parts)

Length: 188 mm

Weight:

1.3 kg

Operating environment:

Temperature: 0° C - 40° C

(when the "HIGHLAND" is set to "ON" : 0° C - 35° C)

Humidity: 20 % - 80 % (no condensation)

Certifications:

PT-P1SDU:

UL60950, C-UL, FCC Class B

PT-P1SDE/EA:

EN60950, EN55022, EN61000-3-2,

EN61000-3-3, EN55024

<Remote control unit>

Power supply:

3 V DC (Lithium CR2025L battery × 1)

Operating range:

Approx. 7 m

(when operated directly in front of signal receptor)

Dimensions: Width: 54 mm

Height: 8.2 mm

Length: 86 mm

Weight: 32 g (including battery)

Accessories:

Card remote control unit (N2QAYC000001): 1

Lithium battery for remote control unit (CR2025L) : 1

Power cord:

PT-P1SDU: K2CG3DR00005 1

PT-P1SDE: K2CM3DR00002 1

PT-P1SDEA: K2CT3DR00005 (for U.K) 1

K2CM3DR00002 1

RGB signal cable [K1HA15DA0002 (1.8 m)]: 1

Softcase (TPEP017): 1

Options:

Ceiling bracket: ET-PKP1

• Specifications are subject to change without notice.

• Weight and dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Trademark Acknowledgements

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 - Windows and PowerPoint are trademark or registered trademarks of Microsoft Corporation in the United States of America and other countries.
 - VGA and XGA are trademarks of International Business Machines Corporation.
 - Macintosh is a registered trademark of Apple Computer, Inc.
 - S-VGA is a registered trademark of the Video Electronics Standards Association.
- All other trademarks are the property of the various trademark owners.

CAUTION

Lithium Battery

Risk of explosion if battery is replaced by an incorrect type. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

(See also Operating Instructions.)

Be sure to use a Panasonic CR2025 battery as a replacement battery.

Precaution

If using of this projector at high elevations (above 1 400 m), set HIGHLAND to ON. (Refer to "Other settings" in Operating Instructions.)

Failure to observe this may cause malfunctions.

Never use this projector at an elevation of 2 700 m or higher.

Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

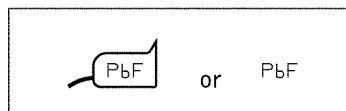
This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370±10°C.
- Be precautions about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

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1 Safety Precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- Use correctly the supplied power cord and must ground it.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.

Be sure to use a voltmeter having the performance described in Table 1.

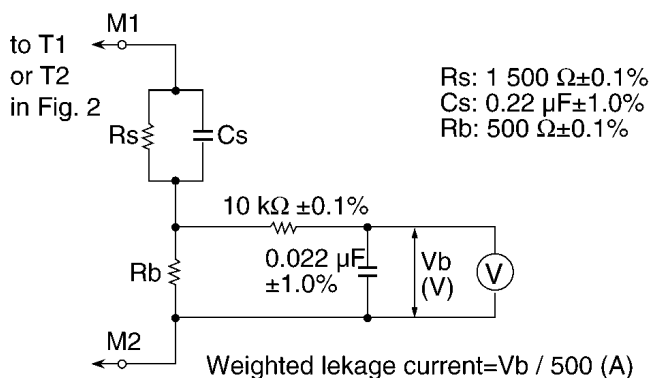


Fig. 1

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1 \text{ M}\Omega$
	Input capacitance: $\leq 200 \text{ pF}$
	Frequency range: 15 Hz to 1 MHz

Table 1

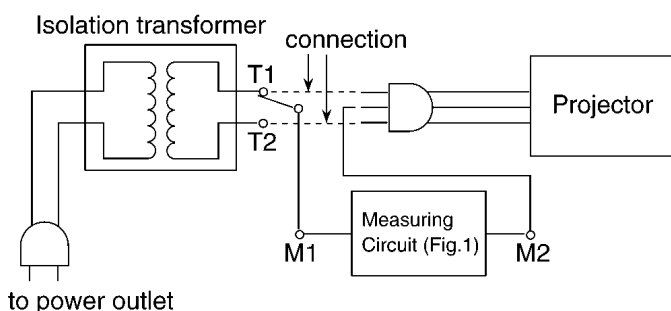


Fig. 2

2. Assemble the circuit as shown in Fig. 2. Plug the power

cord in a power outlet.

3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- The lamp unit has high internal pressure. If improperly handled, explosion might result.
- Because the high pressure lamp involves a risk of failure, never touch the lamp wire lead during the service. (See Fig. 3)

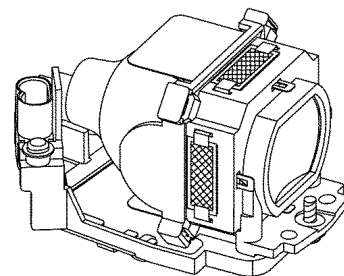


Fig.3

2 Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK and SERVICE MODE for service, etc.

2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the remote control unit to display "MENU" screen, then select "OTHER SETUP" and press "ENTER" button.
2. Select "HIGHTLAND" on "OTHER SETUP" menu and press "ENTER" button 3 seconds or longer.
MENU → OTHER SETUP → HIGHTLAND

2.2. EXT OPTION Menu and Functions

EXT OPTION

FREEZE MSG	OFF / ON
ANGLE RESET	OFF / ON
FAN FULLMODE	OFF / ON
AUTO SETUP	STANDARD / SPECIAL
SYNC	STANDARD / SPECIAL
SELF CHECK	
SERVICE MODE	
FLICKER ADJ	
H PLL	OFF / ON

- FREEZE MSG

Switching ON/OFF "FREEZE" on-screen display

- ANGLE RESET

Resetting "AUTO SETUP (Correcting keystone distortion)" reference level

Note:

- Normally, do not select. (Angle reset data will be rewritten.)

- FAN FULLMODE

Setting the cooling fan motor rotation speed

- Switching ON "FAN FULLMODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULLMODE" is ON, changing "HIGHTLAND" in OTHER SETUP becomes impossible (setting FAN FULLMODE is given priority more than HIGHTLAND).

- AUTOSETUP

Setting AUTO SETUP mode

- STANDARD: To set the normal mode (the dot clock is adjusted strictly))
- SPECIAL: To set the special mode (the dot clock is adjusted roughly)

Note:

- Do not change the initial setting (STANDARD).

- SYNC

Setting SYNC processing mode

- STANDARD: To set the normal mode
- SPECIAL: To set the special mode (noise reduction mode)

Note:

- Do not change the setting when it is possible to receive normally.

Change the setting only when the image is not displayed normally because of the sync signal noise of connected equipment.

- SELF CHECK

To enter the self-check mode

- SERVICE MODE

To enter the service mode

- FLICKER ADJ

To enter the flicker adjustment mode

- H PLL

When non-standard signal of VIDEO/S-VIDEO is inputted (VCR, VHD, etc.), horizontal synchronization might be disordered according to connected equipment. In this case, set H PLL to OFF.

2.3. Canceling EXT OPTION

Press "MENU" button on the remote control unit.

3 Self-Check Mode

This mode is used to narrow down the location of the failure.

3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the remote control unit.

3.2. Self Check Display and Contents

Display example

①	SELF CHECK	R1.00	S1.00
②	XGA60		
③	H ***.***KHz	G SAVED	OK
④	V ***.***Hz	U SAVED	OK
⑤	TEMP OK	FAN	OK
⑥	TEMP1 ***	TEMP1	***
⑦	TEMP2 ***	TEMP2	***
⑧	TEMP3 ***	TEMP3[0]	***
⑨	ANGLE ***	ANGLE[0]	***
⑩	DEGREE ***		
⑪	LAMP OK	2000H	OK
⑫	TOTAL *****H	RESET	***
⑬	*****H**	*****H**	
⑭	*****H**	*****H**	
⑮	*****H**	*****H**	

* This display is an example and the display contents depend on the input signal mode.

• The result of items "G SAVED" and "U SAVED", "OK" is displayed for OK and "NG" is displayed for NG.

• The result of items "TEMP", "FAN", "LAMP" and "2000H", the OK display becomes red characters when shutting down because abnormality happened last time.

	Display Contents	Remarks	
①	Microcomputer Version Display	Software Version	
②	Resolution Name	Different display according to the input signal	
③	Horizontal Signal Frequency	RGB or YP _B PR signal reception only	
④	Vertical Signal Frequency		
⑤	Temperature Abnormality Check	Cause of Lamp Malfanction	
⑥	Thermosensor 1 Measurement Value * ¹	Around Air Outlet (A/D conversion value: 0 - 255)	
⑦	Thermosensor 2 Measurement Value * ¹	Around Air Inlet (A/D conversion value: 0 - 255)	
⑧	Thermosensor 3 Measurement Value	Around Tilt Sensor (A/D conversion value: 0 - 1 023)	
⑨	Tilt Sensor Measurement Value	Voltage Value (0.00 - 3.30)	
⑩	Tilt Degree * ²	Degree of tilt of the projector, that is a value by which temperature correction is given to the tilt sensor A/D conversion value. (The keystone distortion is corrected with this value.)	
⑪	Lamp - Abnormality Check	Cause of Lamp Malfanction	
⑫	Total Usage Time	Projector Cumulative Usage Time	
⑬	Lamp ON - Cumulative Usage Time / Frequency / Cumulative Usage Time	Current	Cumulative Usage Time (actual time), ON Frequency and Cumulative Usage Time (conversion time for 130 W) of the lamp are shown from the left.
⑭		Second	
⑮		First	
⑯	Gamma Correction Data Check	It is distinguished whether gamma data is stored in the flash ROM.	
⑰	Color Unevenness Correction Data Check	It is distinguished whether color unevenness correction data is stored in the flash ROM.	
⑱	Fan Stop Check	Cause of Lamp Malfanction	
⑲	Thermosensor 1 A/D Conversion Value	Temperature around the air outlet when the last thermal shutdown occurs	
⑳	Thermosensor 2 A/D Conversion Value	Temperature around the air inlet when the last thermal shutdown occurs	
㉑	Thermosensor 3 Reference Value	Thermosensor 3 A/D Conversion Value (0 - 1 023) at angle reset	
㉒	Tilt Sensor Reference Value	Tilt Sensor Voltage Value (0.00 - 3.30) at angle reset	
㉓	Lamp - Judgment for Cumulative Usage more than 2 000 h * ³	Judgment for Replacement Time of Lamp	
㉔	Lamp - Reset Frequency of Cumulative Usage Time	Reset Frequency (0 - 255)	

*¹ When detected abnormal temperature (high temperature around the air inlet and/or outlet ports, large difference between temperature around the air inlet/outlet ports), TEMP indicator turned on. If arriving at the critical temperature, the power supply will be shutdown automatically and the indicator will flash.

*² The keystone distortion is corrected automatically with this value during automatic setup.

*³ Warning of the lamp cumulative usage time and shutdown use the conversion time for 130 W.

3.3. Canceling the self-check mode

Press "MENU" button on the remote control unit.

4 Service Mode

This mode is used to display seven kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch, White cross, Black cross and White (No pattern)] in the four colors (White, Red, Green and Blue).

Note:

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

4.1. Procedure to enter the service mode

Select "SERVICE MODE" on "EXT OPTION" menu and press "ENTER" button on the remote control unit.

Note:

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and the left-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

4.2. Canceling the service mode

Press "MENU" button on the remote control unit.

5 Flicker Adjustment Mode

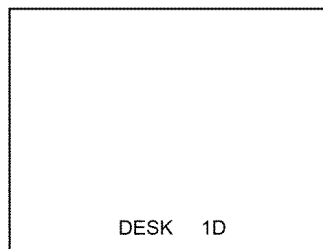
If replacing the optical parts (Analysis / LCD / Lens block) of this projector and/or A-P.C.Board (assembly), enter the flicker adjustment mode and minimize the flicker.

5.1. Procedure to enter the adjustment mode

Select "FLICKER ADJ" on "EXT OPTION" menu and press "ENTER" button on the remote control unit.

Note:

"DESK setting (blue)" is displayed when entering the adjustment mode.



Adjustment Display when DESK setting

5.2. Adjustment Display and Contents

- Setting value is increased and decreased with the right-arrow "▶" and left-arrow "◀" buttons.
 - "◀": Decrease, "▶": Increase
 - Adjust the setting value to minimize the flicker on the screen.
 - Execute the adjustment by 6 patterns below.
- The pattern (adjustment display) is switched with the up-arrow "▲" and down-arrow "▼" buttons.
 - "▲": Forward direction, "▼": Reverse direction
 - There are 6 patterns of "DESK setting (blue)", "DESK setting (red)", "DESK setting (green)", "CEILING setting (blue)", "CEILING setting (red)" and "CEILING setting (green)".
 - The setting value is saved into this projector when the pattern is switched.

5.3. Canceling the flicker adjustment mode

Press "MENU" button on the remote control unit.

Note:

When "MENU" button is pressed, the setting value at that time is saved into this projector and the adjustment mode is canceled.

6 Disassembly Instructions

Warning:

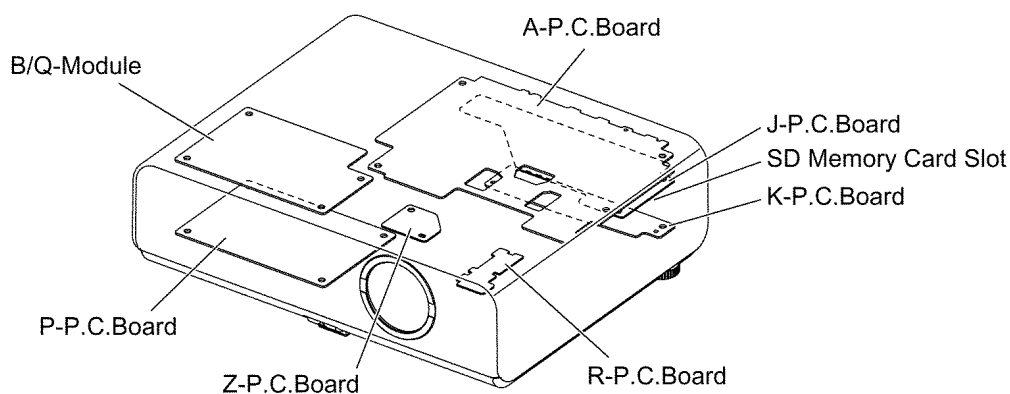
- Be sure to unplug the power cord from the power outlet before disassembling this projector.

Caution:

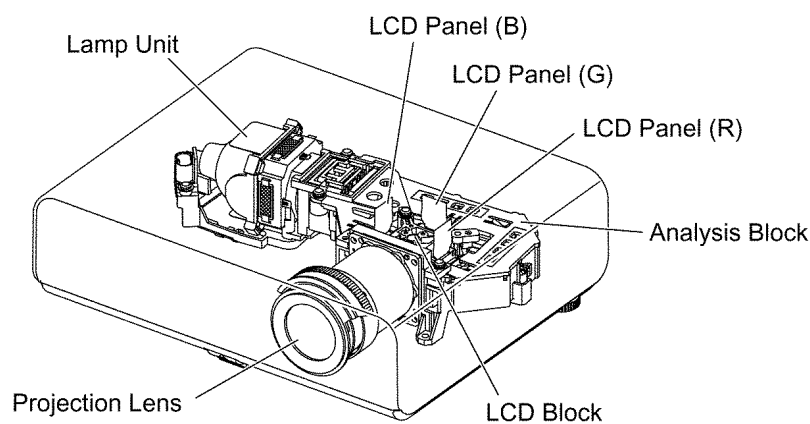
- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

6.1. Printed Circuit Board and Main Parts Location

Electrical Parts

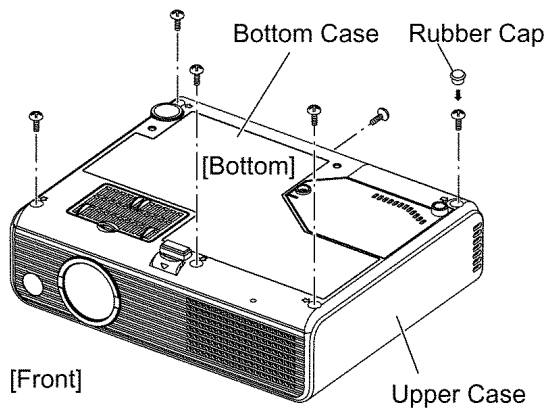


Optical Parts

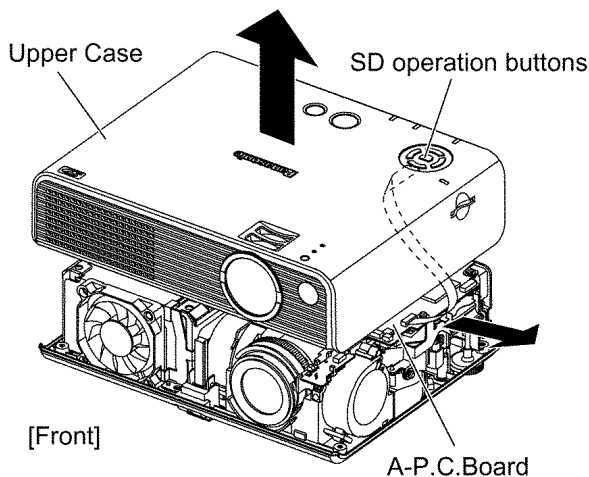


6.2. Removal of Upper Case

1. Turn the projector upside down.
2. Remove the 1 rubber cap.
3. Unscrew the 6 screws.



4. Return the projector to the normal position.
5. Lift the upper case upward (approx. 10 cm).
6. Disconnect the flexible cable from SD operation buttons (connector A1 on A-P.C.Board) and remove the upper case.



Note:

When reassembling, take care about the following items.

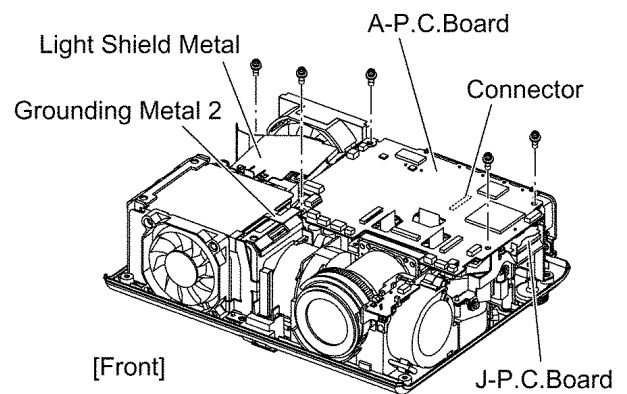
- Not to mistake the direction of the flexible cable.
(The black surface is upper.)
- Attach the rubber cap in original position without fail.

6.3. Removal of A-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the light shield metal.
3. Unscrew the 1 screw and remove the grounding metal 2.
4. Unscrew the 2 screws, then lift the A-P.C.Board and remove it.

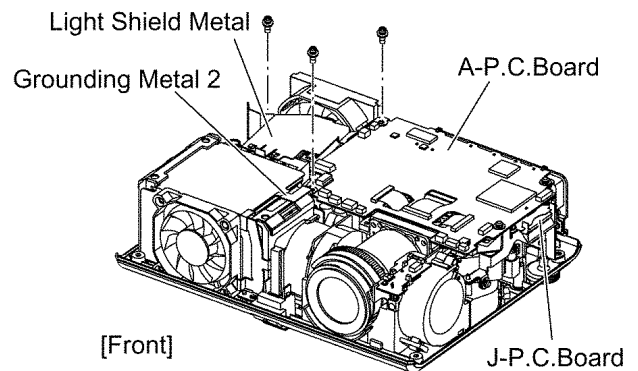
Note:

- A-P.C.Board is connected with J-P.C.Board with the connector. Work carefully when removing it.

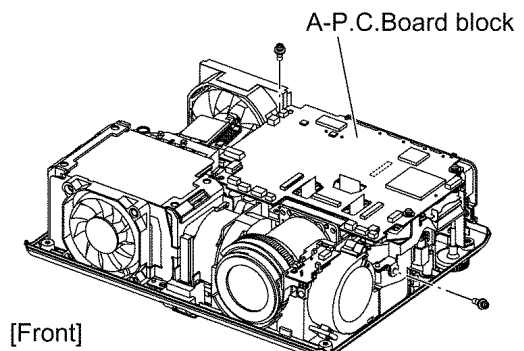


6.4. Removal of J-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the light shield metal.
3. Unscrew the 1 screw and remove the grounding metal 2.



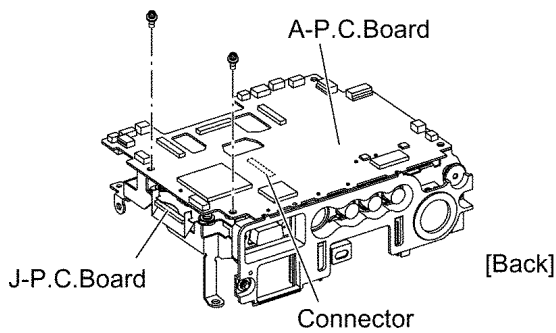
4. Unscrew the 2 screws and remove the A-P.C.Board block (with J-P.C.Board).



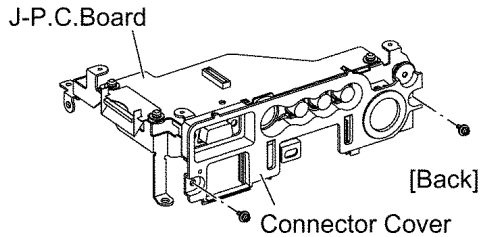
5. Unscrew the 2 screws and remove the A-P.C.Board.

Note:

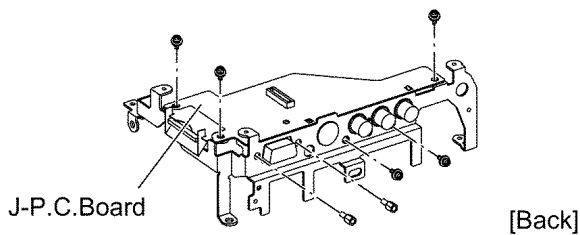
- A-P.C.Board is connected with J-P.C.Board with the connector. Work carefully when removing it.



6. Unscrew the 2 screws and remove the connector cover.



7. Unscrew the 7 screws and remove the J-P.C.Board.

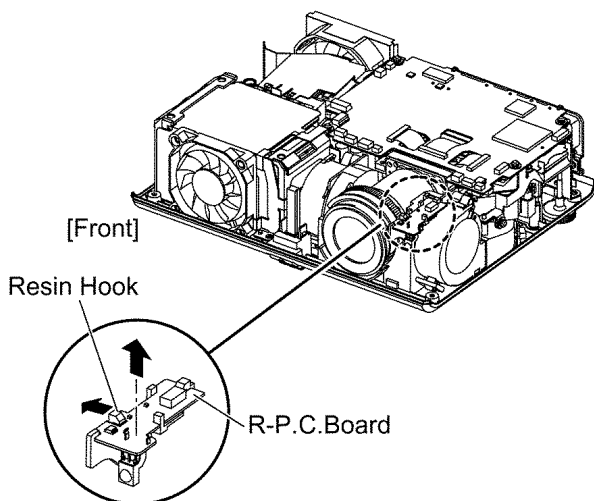


6.5. Removal of R-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. While unhooking the resin hook, remove the R-P.C.Board.

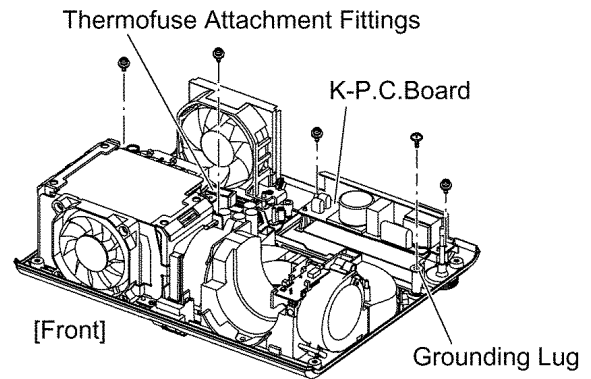
Note:

- Work carefully not to damage the resin hook.



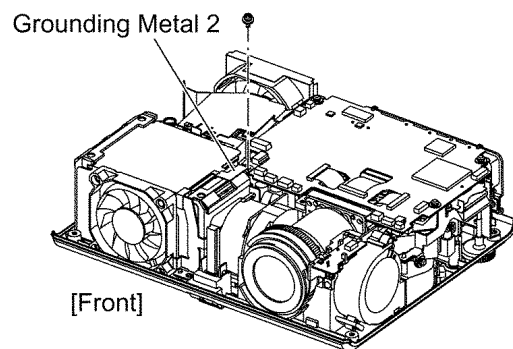
6.6. Removal of K-P.C.Board

1. Remove the analysis block, LCD block and lens according to the steps 1 through 6 in the section 6.11. "Removal of Analysis Block and Lens".
2. Unscrew the 2 screws and remove the thermofuse attachment fittings.
3. Unscrew the 1 screw and remove the grounding lug.
4. Unscrew the 2 screws and remove the K-P.C.Board.

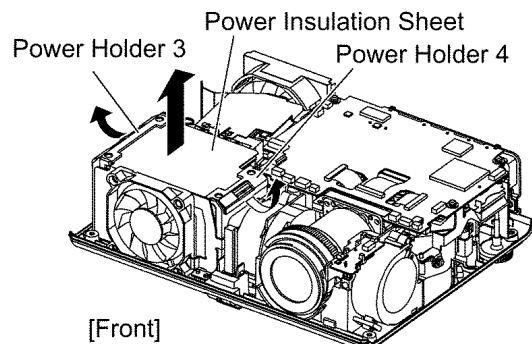


6.7. Removal of B/Q-Module

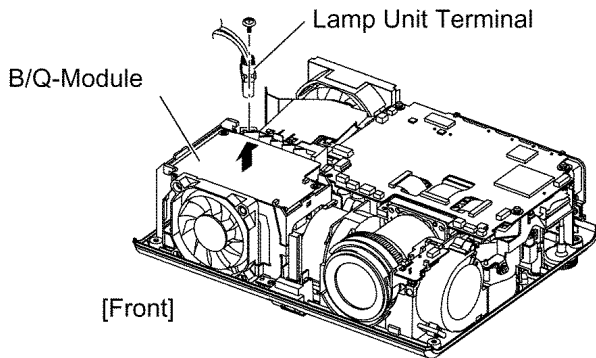
1. Remove the lamp unit according to the section 6.10. "Removal of Lamp Unit".
2. Remove the upper case according to the section 6.2. "Removal of Upper Case".
3. Unscrew the 1 screw and remove the grounding metal 2.



4. Unhook each hook, and remove the power holders 3 and 4.
5. Remove the power insulation sheet.

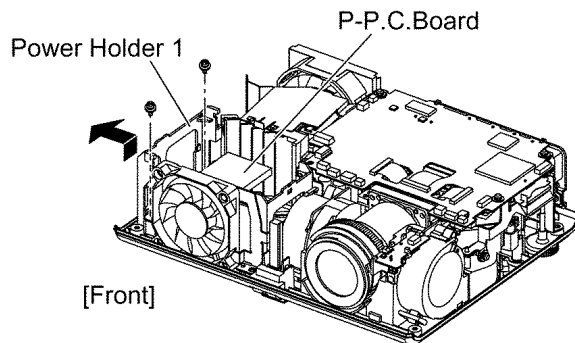


6. Unscrew the 1 screw and remove the lamp unit terminal.
7. Remove the B/Q-Module.

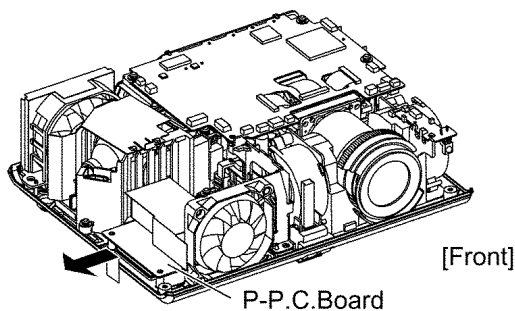


6.8. Removal of P-P.C.Board

1. Remove the B/Q Module according to the section 6.7. "Removal of B/Q Module".
2. Unscrew the 2 screws.
3. While lifting the P-P.C.Board, remove the power holder 1.



4. Slide the P-P.C.Board in the direction of the outside and unhook the hook portion, then remove it.

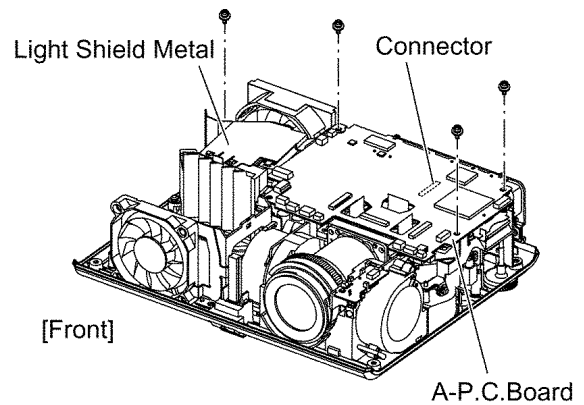


6.9. Removal of Z-P.C.Board

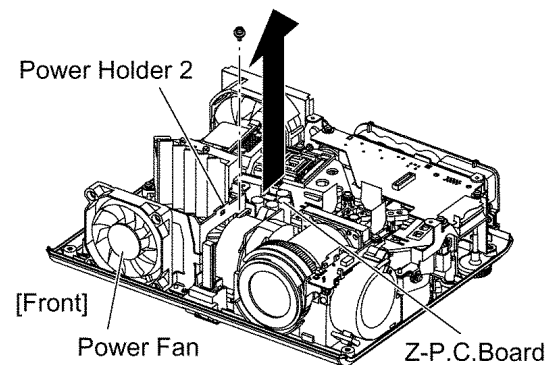
1. Remove the P-P.C.Board according to the section 6.8. "Removal of P-P.C.Board".
2. Unscrew the 2 screws and remove the light shield metal.
3. Unscrew the 2 screws and remove the A-P.C.Board.

Note:

- A-P.C.Board is connected with J-P.C.Board with the connector. Work carefully when removing it.

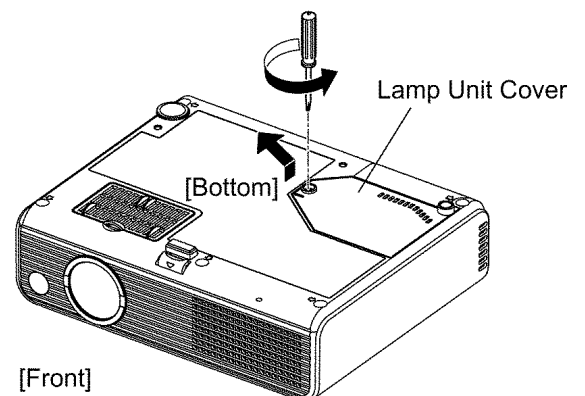


4. Unscrew the 1 screw and remove the Power fan and power holder 2.
5. Remove the Z-P.C.Board.

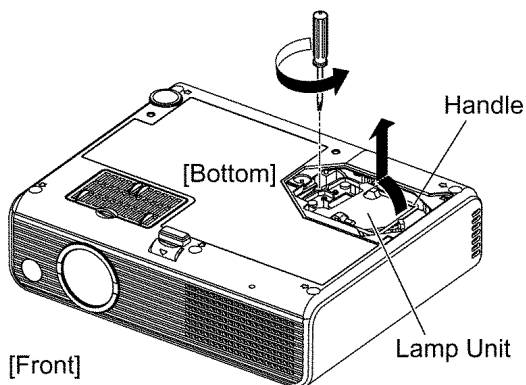


6.10. Removal of Lamp Unit

1. Turn the projector upside down.
2. Loosen the 1 screw until it idles, remove the lamp unit cover.

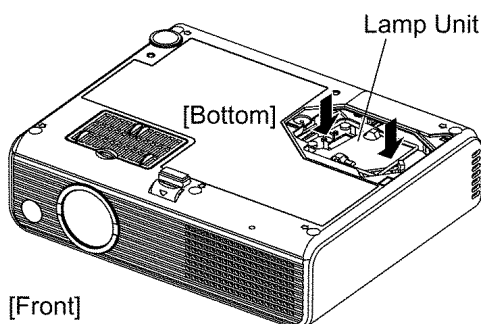


3. Loosen the 1 screw until it idles, remove the lamp unit with the handle.

**Note:**

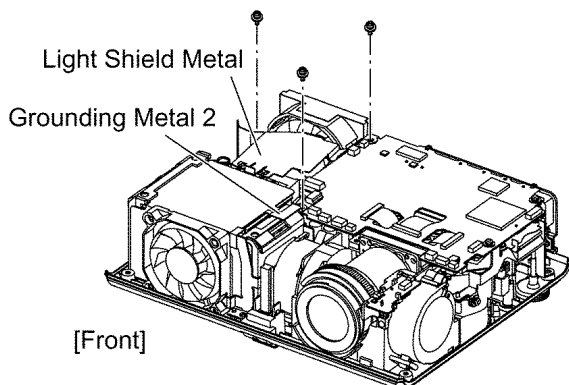
- When installing the lamp unit (or a new one) in the main unit, place it in a specified position and press the connector side and the opposite side of the lamp unit (arrow positions shown in the figure below), and confirm the lamp unit is inserted securely.

Then, tighten the 1 screw fixing the lamp unit, and attach the lamp unit cover.

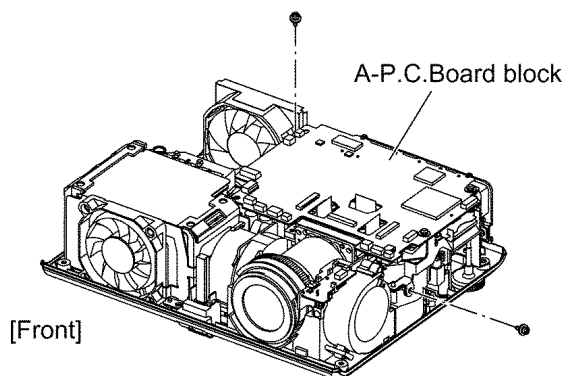


6.11. Removal of Analysis Block and Lens

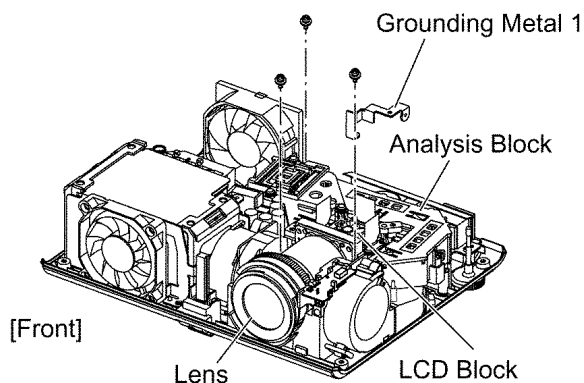
- Remove the lamp unit according to the section 6.10. "Removal of Lamp Unit".
- Remove the upper case according to the section 6.2. "Removal of Upper Case".
- Unscrew the 2 screws and remove the light shield metal.
- Unscrew the 1 screw and remove the grounding metal 2.



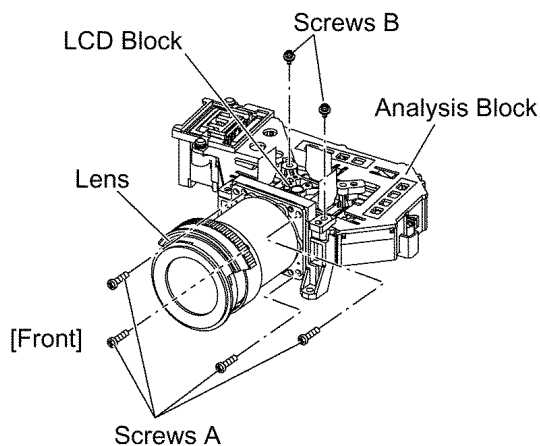
(with J-P.C.Board).



- Unscrew the 3 screws and remove the analysis block, LCD block and lens.



- Unscrew the 4 screws A and remove the lens.
- Unscrew the 2 screws B and remove the LCD block (the analysis block remains).



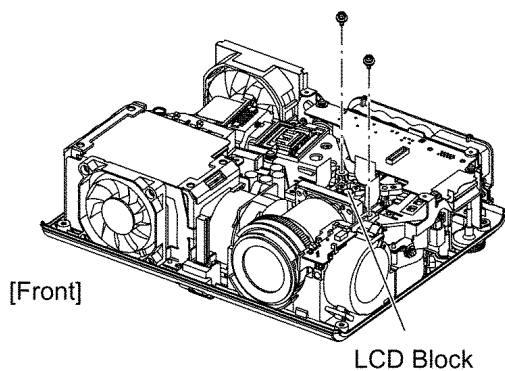
6.12. Removal of LCD Block

- Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".
- Unscrew the 2 screws and remove the LCD block.

Note:

- Be careful not to touch the surface of prism and LCD panel.

- Unscrew the 2 screws and remove the A-P.C.Board block

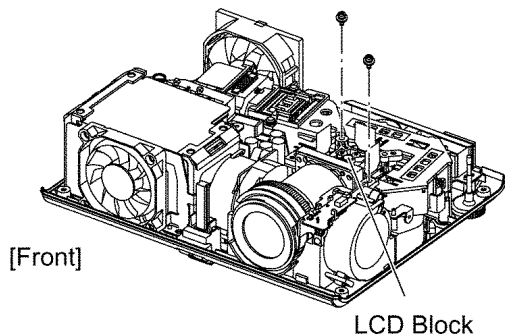


6.13. Replacement of LCD Panel (B)

1. Remove the A-P.C.Board block according to the steps 1 through 4 in the section 6.4. "Removal of J-P.C.Board".
2. Unscrew the 2 screws and remove the LCD block.

Note:

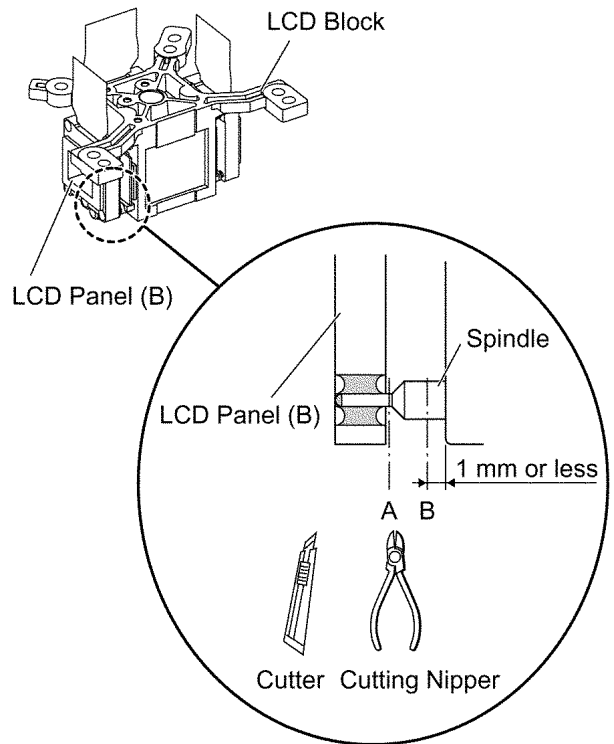
- Be careful not to touch the surface of prism and LCD panel.



3. Cut the 4 LCD panel installation spindles at the position A and remove the LCD panel.
4. Cut the 4 LCD panel installation spindles at the position B and remove them.

Notes:

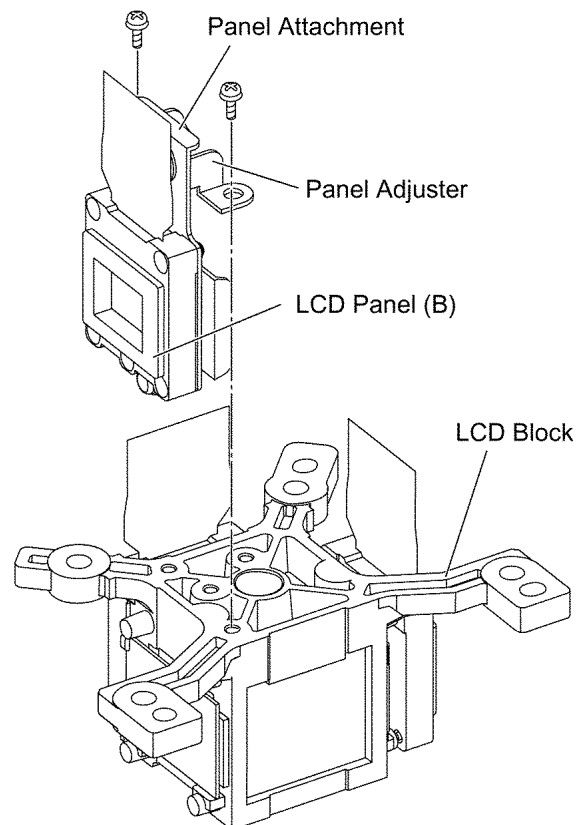
- Work carefully not to apply external force around the spindle part by using a cutter, cutting nipper or the like for cutting the spindle.
- Adjust the height after the spindle is cut to 1 mm or less.



5. Tighten the 2 screws temporarily just until new LCD panel (with the panel attachment and panel adjuster) can be shifted by your fingers.

Note:

- The panel adjuster complete set (adjuster and attachment) is the option for service.



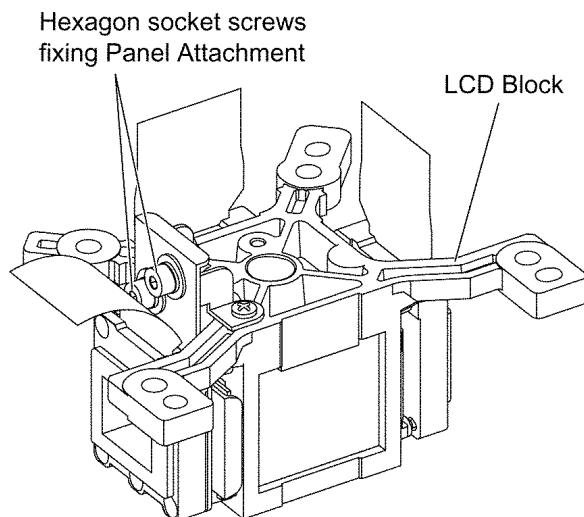
6. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws

fixing the A-P.C.Board block as they are removed.

7. Adjust the convergence according to the section 7.4. "Convergence Adjustment".
8. After the adjustment, while paying attention not to vary the adjusting result, tighten the 2 screws fixing the panel attachment with a hexagon head wrench.

Note:

- Prepare a hexagon head wrench processed short.

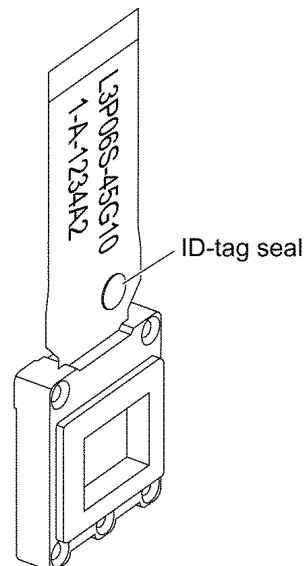


9. Reassemble the projector as it was.

6.14. LCD Panel Discrimination

ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

- Since the ID-tag seal is pasted to the FPC of LCD Panel, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.



6.15. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.
- When replacing LCD Panel, use a component which has the same part number as the original.

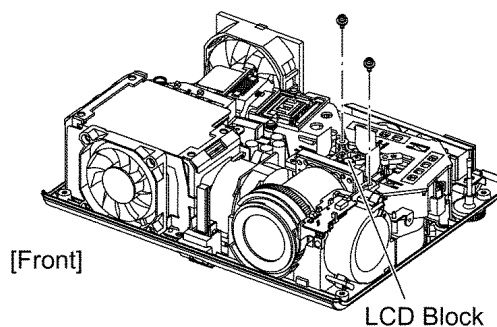
LCD panel	Combination1	Combination2
R	L5BDAXN00079 (L3P06S-45G10)	L5BDAXN00082 (L3P06S-46G10)
G	L5BDAXN00083 (L3P06S-46G10)	L5BDAXN00080 (L3P06S-45G10)
B	L5BDAXN00081 (L3P06S-45G10)	L5BDAXN00084 (L3P06S-46G10)

6.16. Replacement of Incidence Polarizer (B)

1. Remove the A-P.C.Board block according to the steps 1 through 4 in the section 6.4. "Removal of J-P.C.Board".
2. Unscrew the 2 screws and remove the LCD block.

Note:

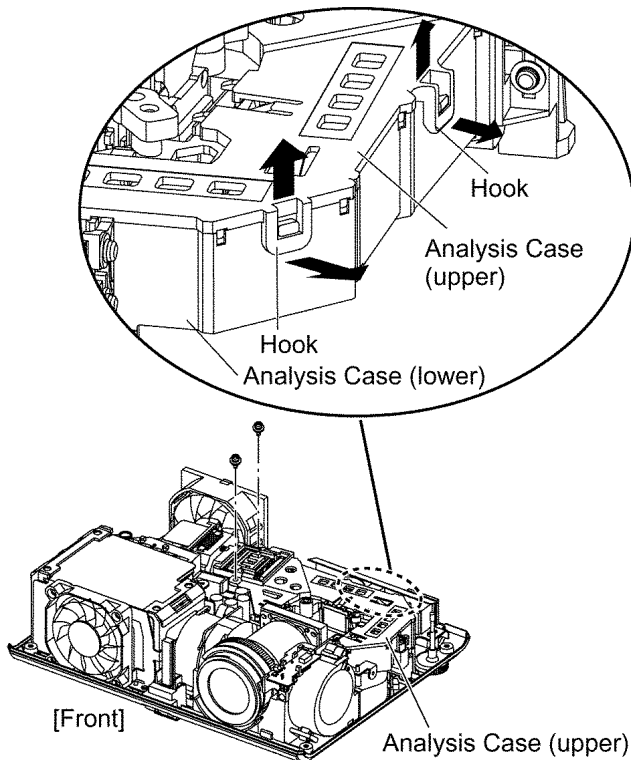
- Be careful not to touch the surface of prism and LCD panel.



3. Unscrew the 2 screws.
4. Remove the analysis case (upper) while expanding the 2 hooks of it outside.

Note:

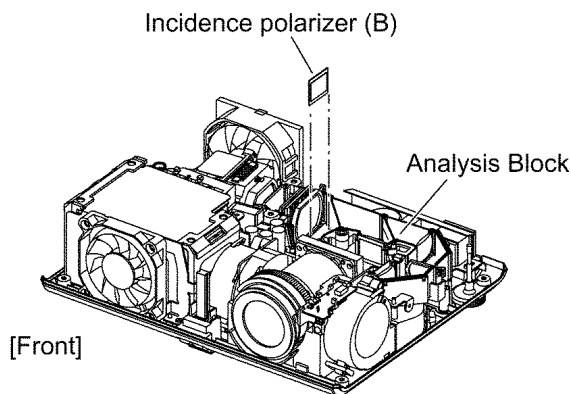
- Because the hook is damaged easily, be careful not to expand it excessively.



5. Replace the incidence polarizer.

Note:

- Be careful not to touch the surface of incidence polarizer.



6.17. Replacement of Projection Polarizer (B, G)

- The procedure is described as an example of projection polarizer (B).

1. Remove the LCD block according to the section 6.12. "Removal of LCD Block".
2. Remove the projection polarizer (B) or (G) which requires replacing.
(The projection polarizer is secured with adhesive tape.)

Notes:

- Be careful not to damage peripheral components (prism, LCD panel, etc.).

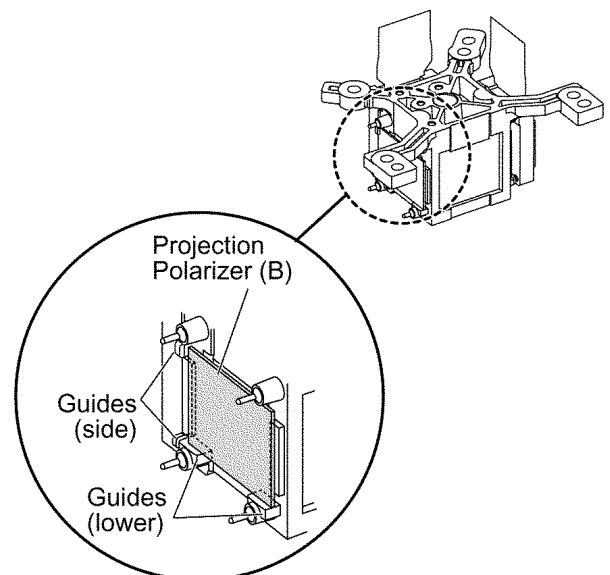
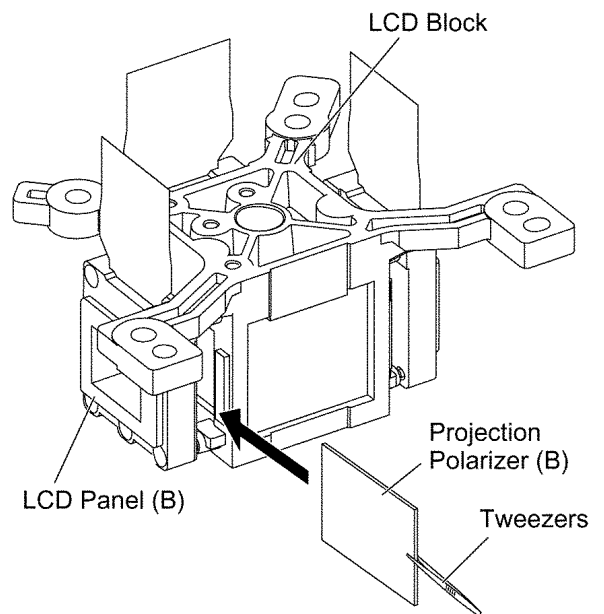
- Use tweezers.

3. Install new projection polarizer.

- a. Put adhesive tape on the projection polarizer.
- b. Stick the projection polarizer on the specified position.

Notes:

- Align the projection polarizer with the guides (lower, side) of LCD block.
 - Be careful not to touch the surface of projection polarizer.
 - Use tweezers.
- c. Press the adhesive part and secure the projection polarizer.



6.18. Replacement of PBS Array (Analysis Block)

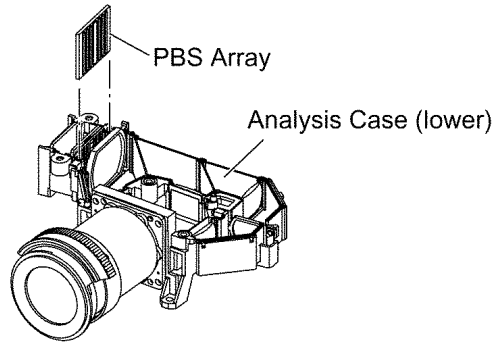
1. Remove the analysis case (upper) according to the steps 1 through 4 in the section 6.16. "Replacement of Incidence

Polarizer (B)".

2. Remove the PBS array.
3. Install new PBS array.

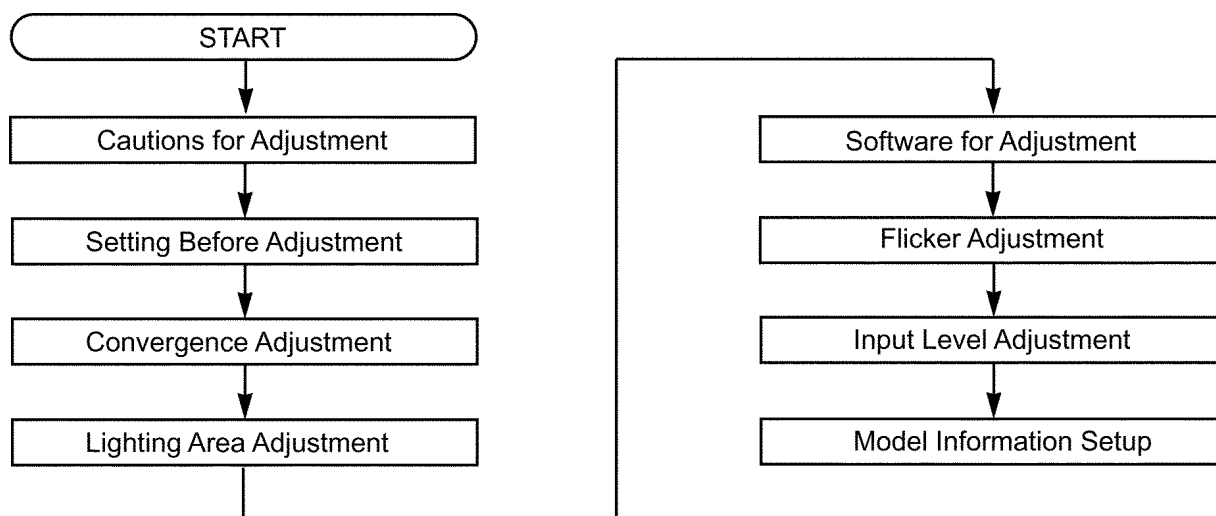
Note:

- Be careful not to mistake the direction (inside and outside, upper and lower).
- Be careful not to touch the surface of PBS array.



7 Measurement and Adjustments

7.1. Adjustment Procedure Flowchart

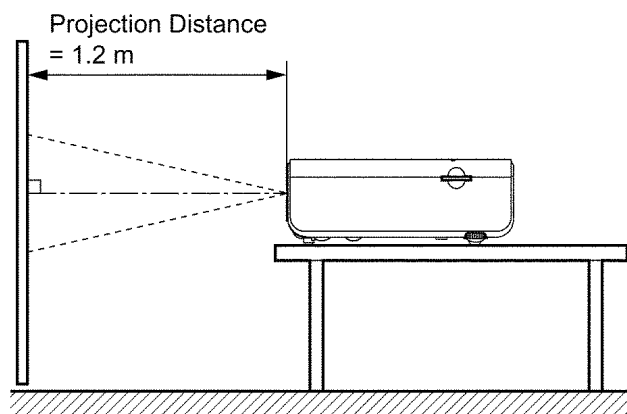


7.2. Cautions for Adjustment

- Never unplug the power cord until the power indicator on the projector illuminates red.
- To maintain and ensure safety, always use the designated components for replacement parts.
- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

7.3. Setting Before Adjustment

- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.



7.4. Convergence Adjustment

Execute this adjustment when replacing the LCD panel (B).

7.4.1. Tools to be used

Service Kit (Part No. TZSH07003): This kit is composed of 3 extension flexible cables and 2 connector extension cables.

Note:

- Consult your dealer or Authorized Service Center for the service kit.

7.4.2. Preparation

1. Loosen 2 screws fixing the panel adjuster and 2 screws fixing the panel attachment, then tighten the 4 screws temporarily just until the LCD panel can be shifted by your fingers.

Note:

- See figures in the section 6.13. "Replacement of LCD Panel (B)" for 2 screws fixing the panel adjuster and 2 screws fixing the panel attachment.

2. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.

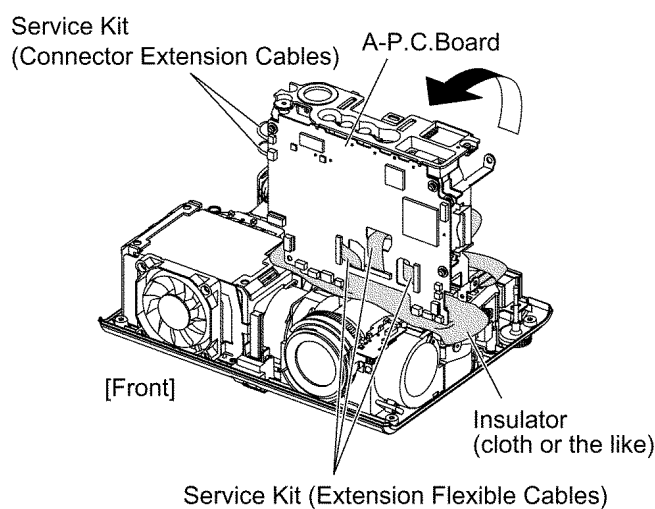
3. Connect the service kit (extension cables).

- Each flexible cable of LCD Panels (R/G/B) - Connectors (A13/A14/A15) on A-P.C.Board
- Exhaust fan connector - Connector (A8) on A-P.C.Board
- Exhaust air thermosensor connector - Connector (A2) on A-P.C.Board

4. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board block.

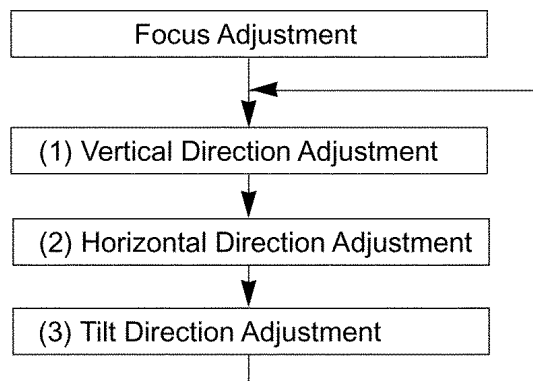


7.4.3. Adjustment Procedure

Prepare 2 pieces of thick black paper (23 mm × 100 mm) that can be shaded.

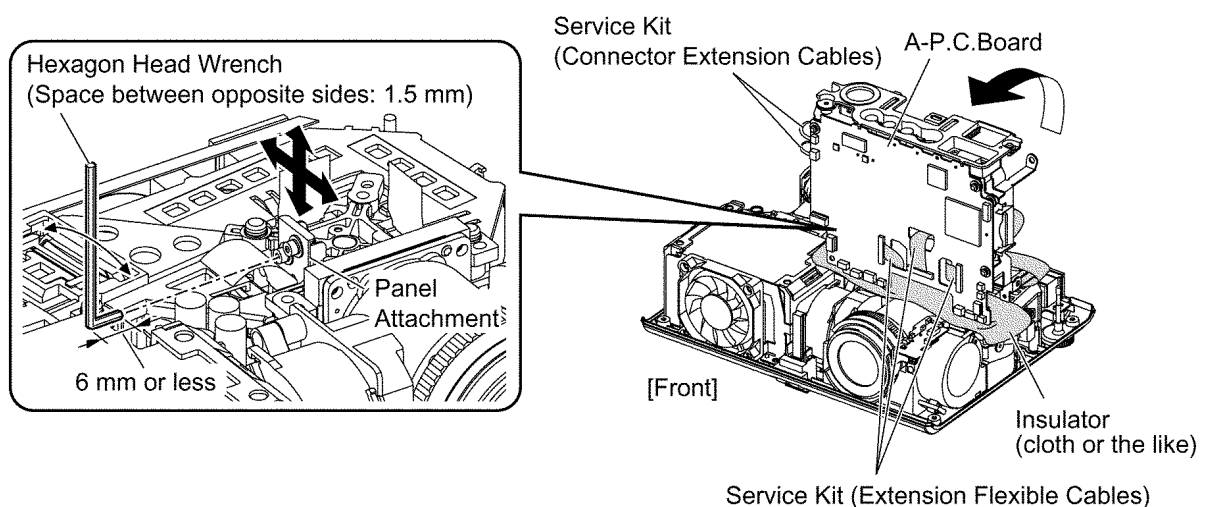
- Cover and shade LCD panels (R) and (G) with the paper.

1. Display the green crosshatch pattern and adjust the lens focus.
2. Display green and blue crosshatch patterns.
3. Adjust focus by shifting the panel adjuster for LCD panel (B) back and forth, then tighten the 2 screws.
4. Adjust the LCD panel (B) position so that the vertical center of blue crosshatch pattern is overlapped with the vertical center of green crosshatch pattern.
5. Adjust the LCD panel (B) position so that the horizontal center of blue crosshatch pattern is overlapped with the horizontal center of green crosshatch pattern.
6. Correct the tilt of the blue crosshatch pattern by adjusting the LCD panel (B) position.
7. Display green, red and blue crosshatch patterns and confirm the convergence. If it is necessary, fine adjust the convergence so that the blue crosshatch pattern is overlapped with green one.



Repeat steps (1) to (3) until the green and blue crosshatch patterns merge into a cyan pattern.

8. After the adjustment, reassemble the projector according to the section 6.13. "Replacement of LCD Panel (B)".



7.5. Lighting Area Adjustment

7.5.1. Tools to be used

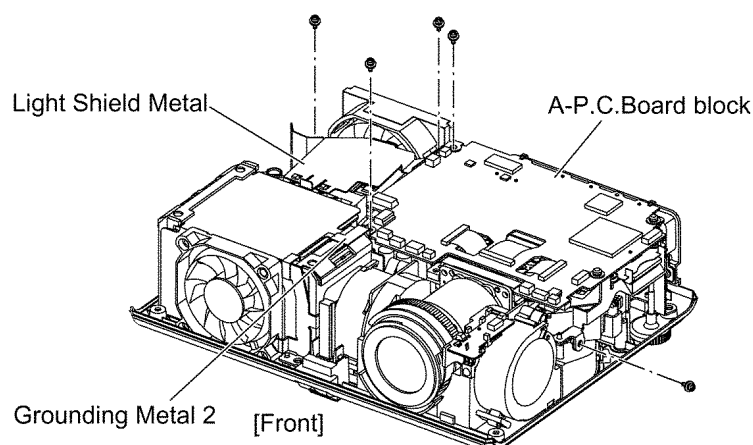
Service Kit (Part No. TZSH07003): This kit is composed of 3 extension flexible cables and 2 connector extension cables.

Note:

- Consult your dealer or Authorized Service Center for the service kit.

7.5.2. Preparation

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the light shield metal.
3. Unscrew the 1 screw and remove the grounding metal 2.
4. Unscrew the 2 screws.



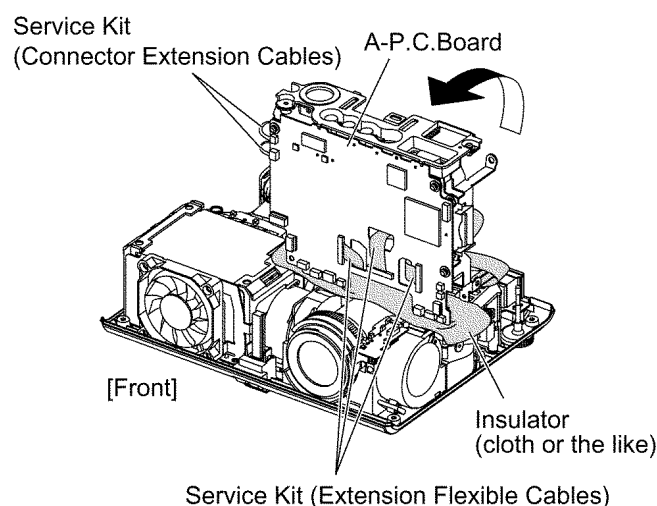
5. Connect the service kit (extension cables).

- Each flexible cable of LCD Panels (R/G/B) - Connectors (A13/A14/A15) on A-P.C.Board
- Exhaust fan connector - Connector (A8) on A-P.C.Board
- Exhaust air Thermosensor connector - Connector (A2) on A-P.C.Board

6. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



7.5.3. Adjustment Procedure

7.5.3.1. Outline

When the lighting area is off from the adjustment and color unevenness appears, adjust the lighting area into correct position.

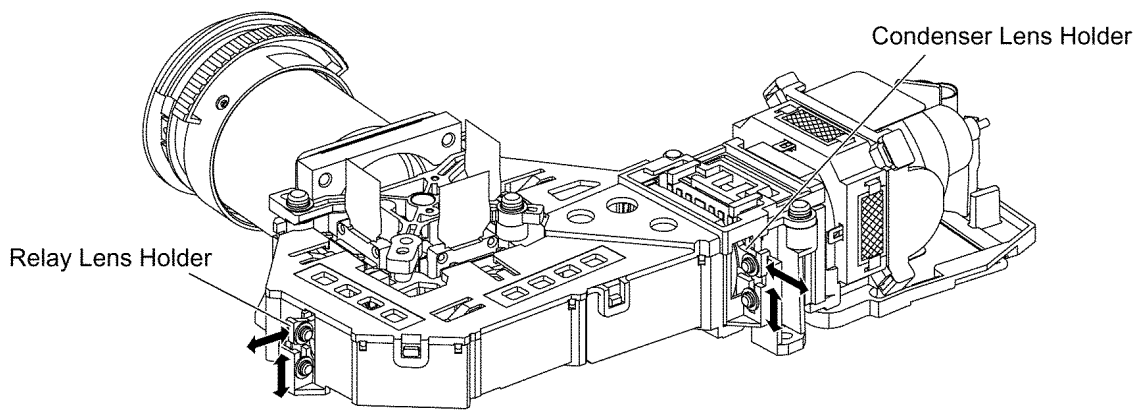
Symptom	Measure
Magenta unevenness	Condenser Lens Holder Adjustment
Yellow unevenness	
Cyan unevenness	Relay Lens Holder Adjustment

Note:

Cyan unevenness might appear by adjusting the condenser lens holder. In that case, adjust the relay lens holder also.

Summary:

- Shifting the condenser lens holder or the relay lens holder to the horizontal direction, adjust color unevenness on the screen right/left sides.
- Shifting the condenser lens holder or the relay lens holder to the vertical direction, adjust color unevenness on the screen upper/lower sides.



[Above figure is shown only the analysis block for explanation.]

7.5.3.2. Condenser Lens Holder Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the condenser lens holder just until the holder can be shifted.
3. Adjust the condenser lens holder position to minimize color unevenness on the screen by shifting the holder in arrow directions.
4. Tighten the 2 screws.

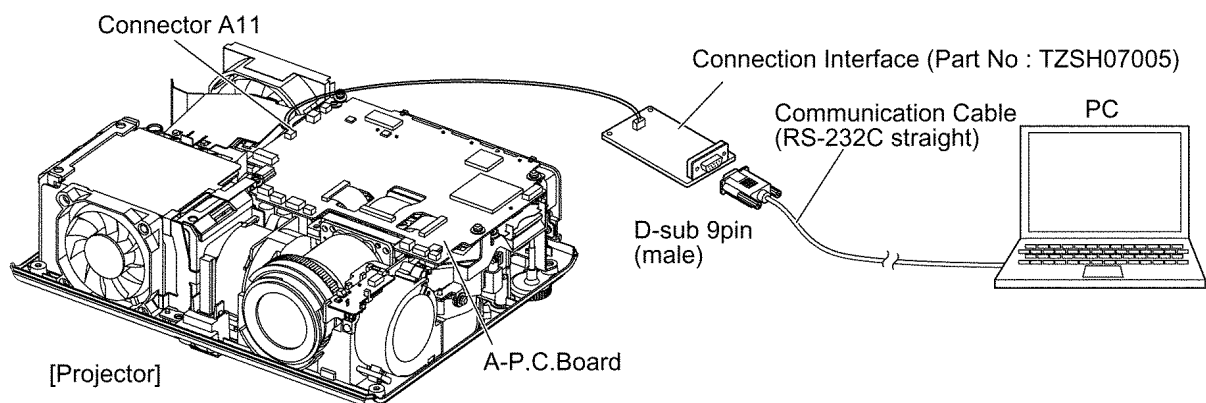
7.5.3.3. Relay Lens Holder Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the relay lens holder just until the holder can be shifted.
3. Adjust the relay lens holder position to minimize color unevenness on the screen by shifting the holder in arrow directions.
4. Tighten the 2 screws.

7.6. Software for Adjustment

7.6.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the connection interface and communication cable between the projector and a PC as shown below.
- Updating the software will change the version number.



7.6.2. Operating Procedure

1. Run software program by the keyboard entry.

Note:

- Use the software program as below.
Adjustment Tool [P1SD]

2. The first menu is Port selection menu.

3. Adjust the projector by selecting the necessary item from the menu in each stage.

7.6.3. Port Selection Menu



Select the port name of PC which connects with the projector, then click [Data] or [Adjustment] button.

7.6.3.1. Explanation of Buttons

Data:

Displays the data transmission/reception menu.

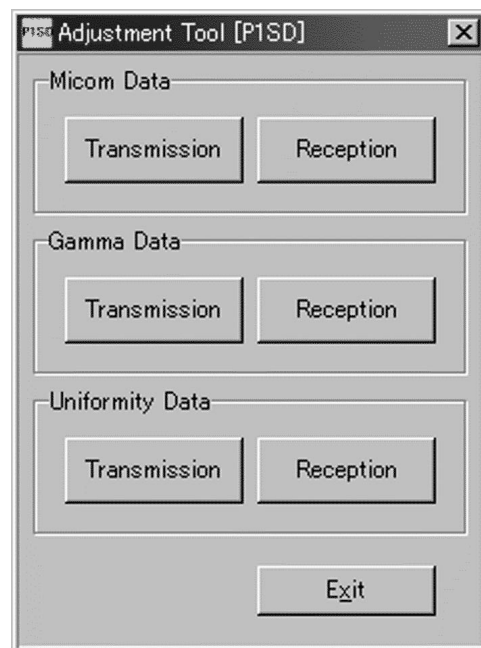
Adjustment:

Displays the adjustment menu.

Exit:

Exits this application.

7.6.4. Data Transmission/Reception Menu



7.6.4.1. Explanation of Buttons

Micom Data Transmission:

Reads the microcomputer data from the file and transmits it to the projector.

Micom Data Reception:

Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Transmission:

Reads the gamma data from the file and transmits it to the projector.

Gamma Data Reception:

Receives the gamma data from the projector and writes it in the file.

Uniformity Data Transmission:

Reads the color unevenness correction data from the file and transmits it to the projector.

Uniformity Data Reception:

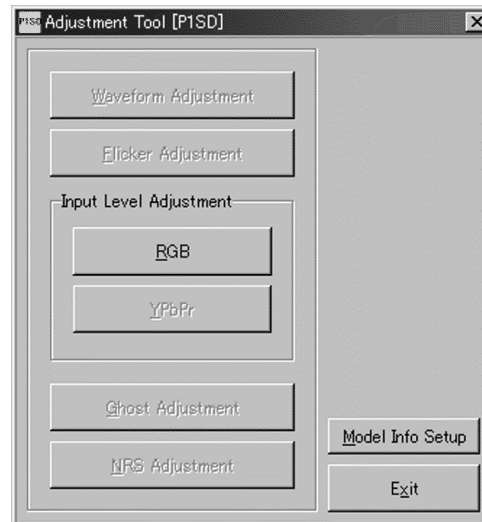
Receives the color unevenness correction data from the projector and writes it in the file.

Exit:

Exits this application.

7.6.4.2. Receiving and transmitting of the data

Click a target button and specify a file name.

7.6.5. Adjustment Menu**7.6.5.1. Explanation of Buttons****Input Level Adjustment RGB:**

Displays the RGB input level adjustment menu.

Model Info Setup

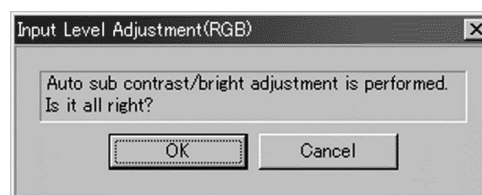
Displays the model information setup menu.

Exit:

Exits this application.

7.7. Flicker Adjustment

According to the procedure of chapter 5 "Flicker Adjustment Mode", minimize the flicker.

7.8. Input Level Adjustment**7.8.1. Adjustment Menu****7.8.2. Explanation of Buttons****OK:**

Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:

Cancels this menu.

7.8.3. Equipment to be used

PC, RGB Signal Generator, Software for Adjustment

7.8.4. Adjustment Procedure

1. Display the input level adjustment [RGB] menu.

2. Input a window pattern signal to PC IN connector.

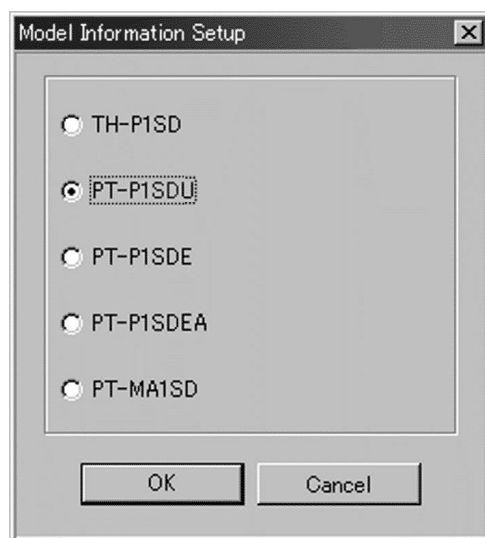
Note:

- Use approx. 15 % window pattern as follows.
 Black background (screen width) : White window width = 2 : 1
 Black background (screen height) : White window height = 3 : 1
- Must use the window pattern of S-VGA (800 × 600).

3. Click the OK button.

7.9. Model Information Setup

7.9.1. Adjustment Menu



7.9.2. Explanation of Buttons

Radio buttons:

Selects the corresponding model name.

OK:

Executes model information setup, then closes this dialog.

Cancel:

Cancels this menu.

7.9.3. Equipment to be used

PC, Software for Adjustment

7.9.4. Setup Procedure

Set the projector into standby mode (POWER button on the projector control panel illuminated red), and execute the following procedure.

1. Display the model information setup menu.
2. Select the corresponding model name.
3. Click the OK button.

8 Troubleshooting

The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

Note: A

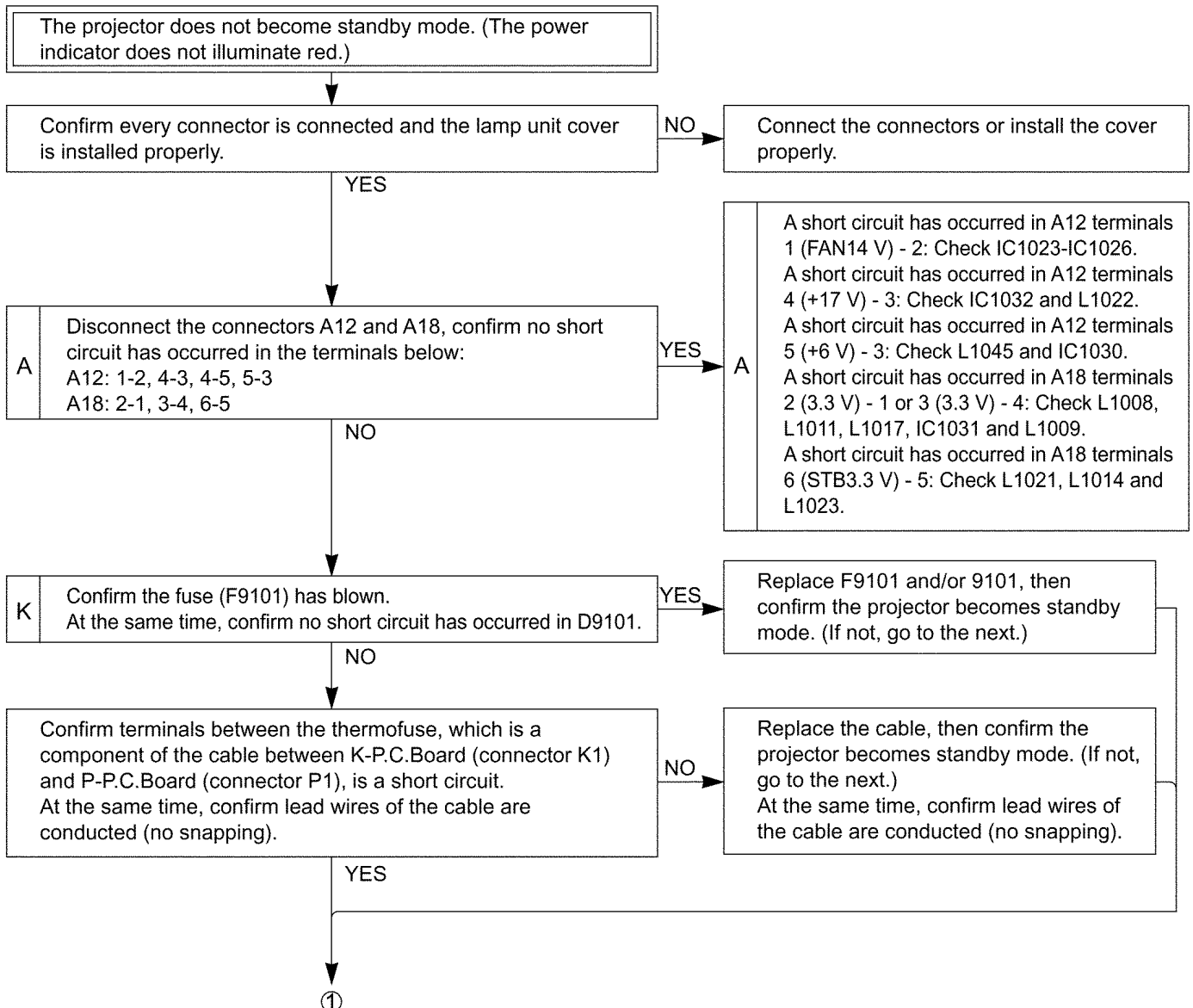
The letter of the alphabet indicates the P.C.Board or Module name.

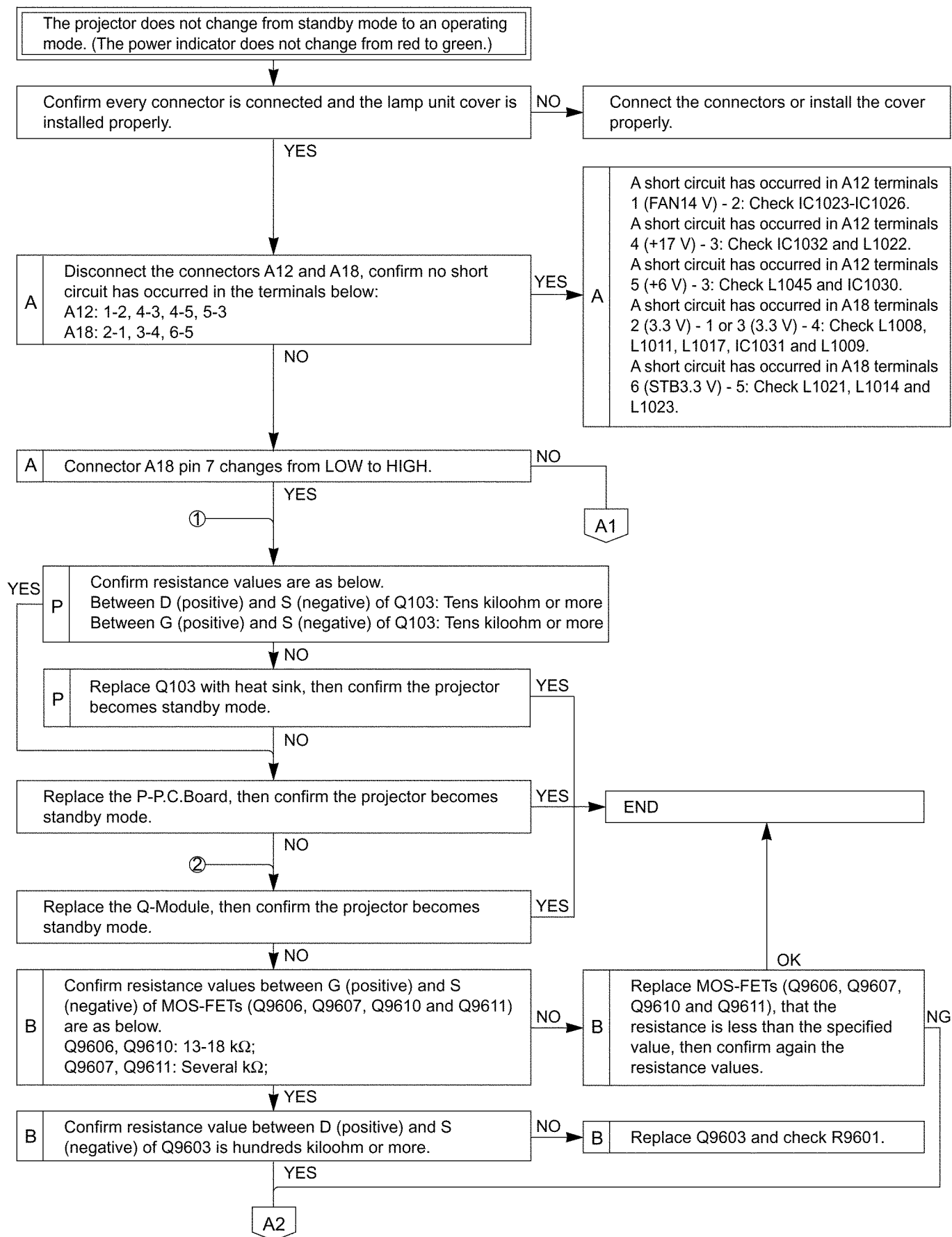
(Example) A: A-P.C.Board, B: B-Module

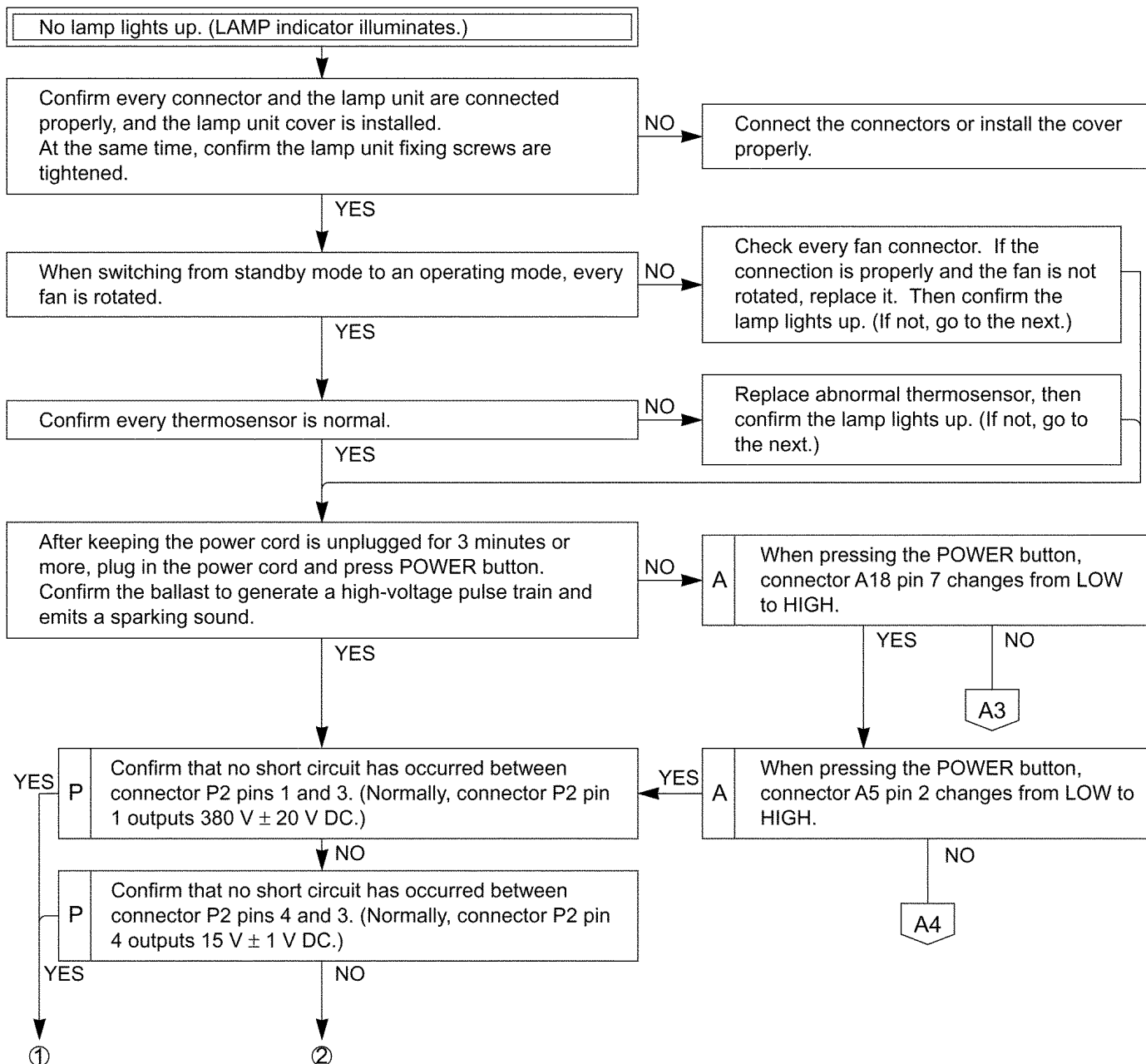
If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 7.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1016 from the old P.C.Board and install them on the new one.

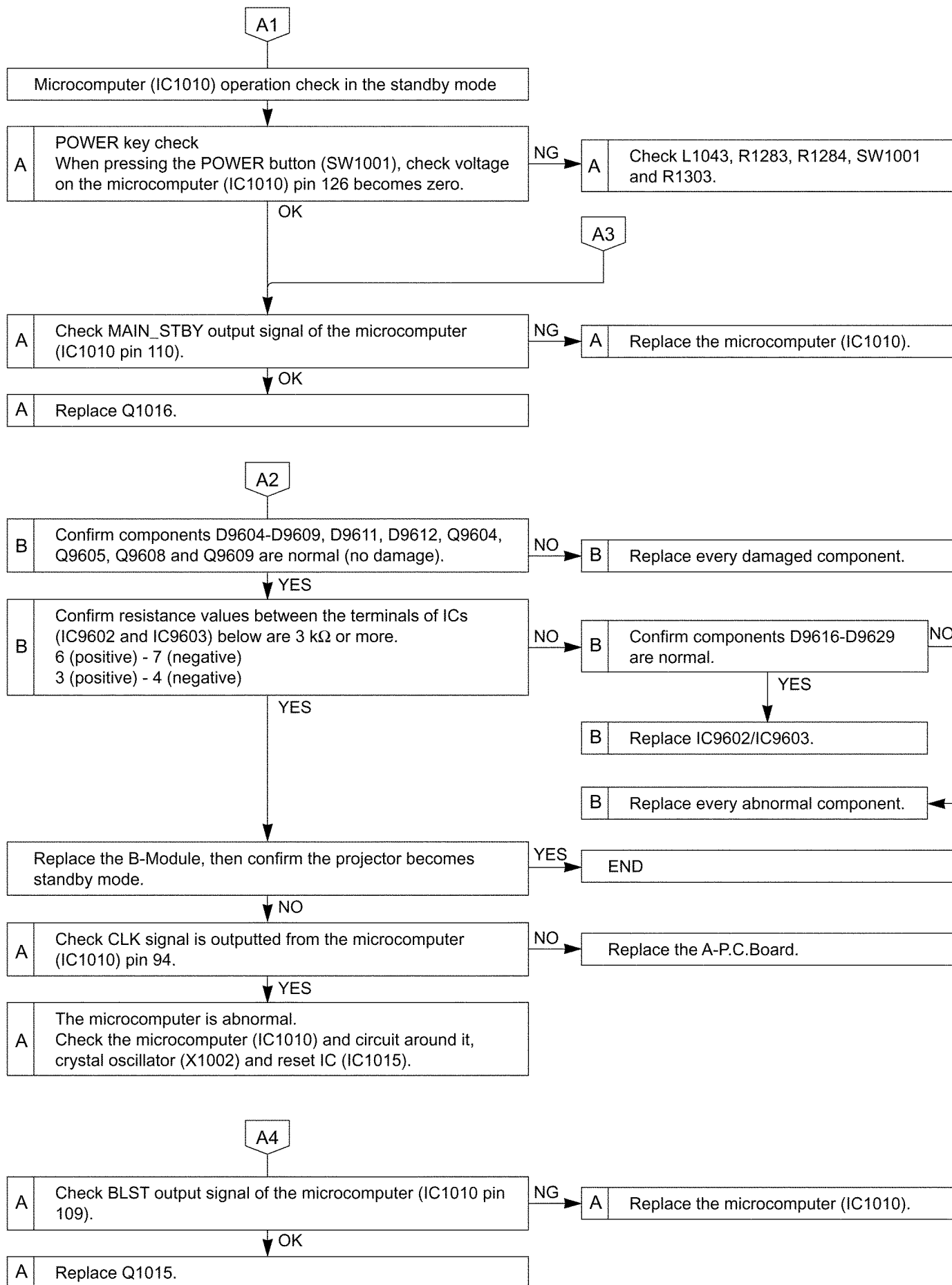
If replacing A-P.C.Board (assembly), adjust RGB Input Level according to the chapter 7.8. "Input Level Adjustment".

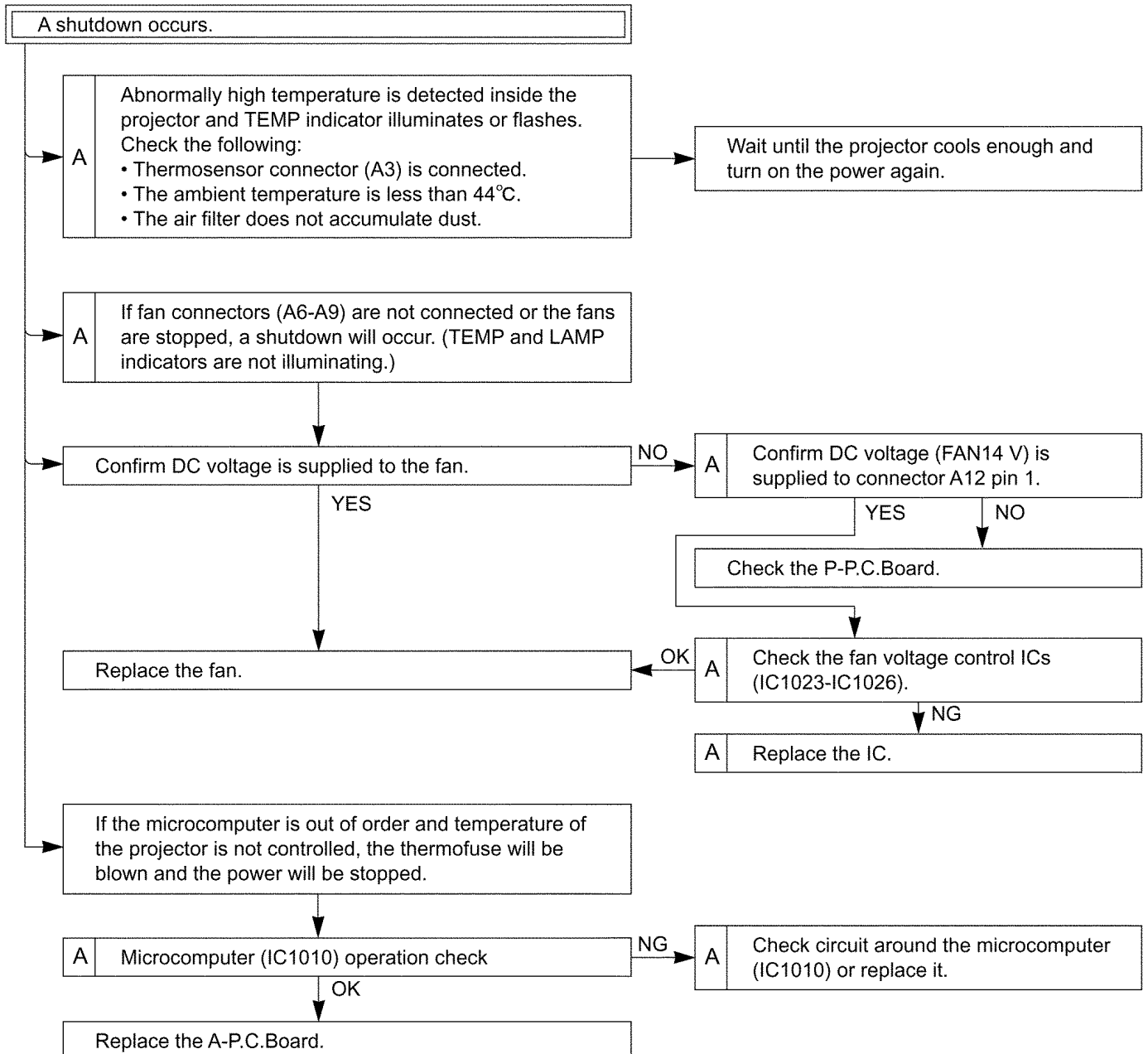
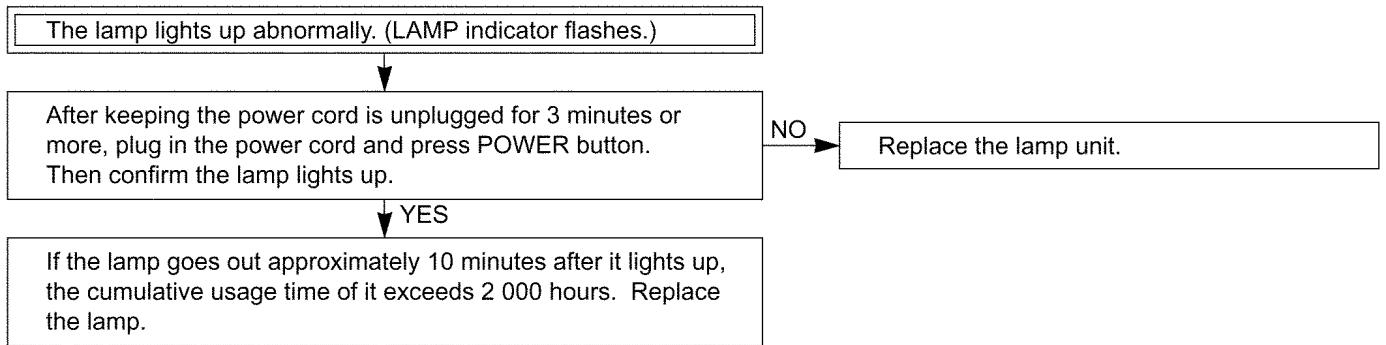
If replacing A-P.C.Board (assembly), set Model Information according to the chapter 7.9. "Model Information Setup".

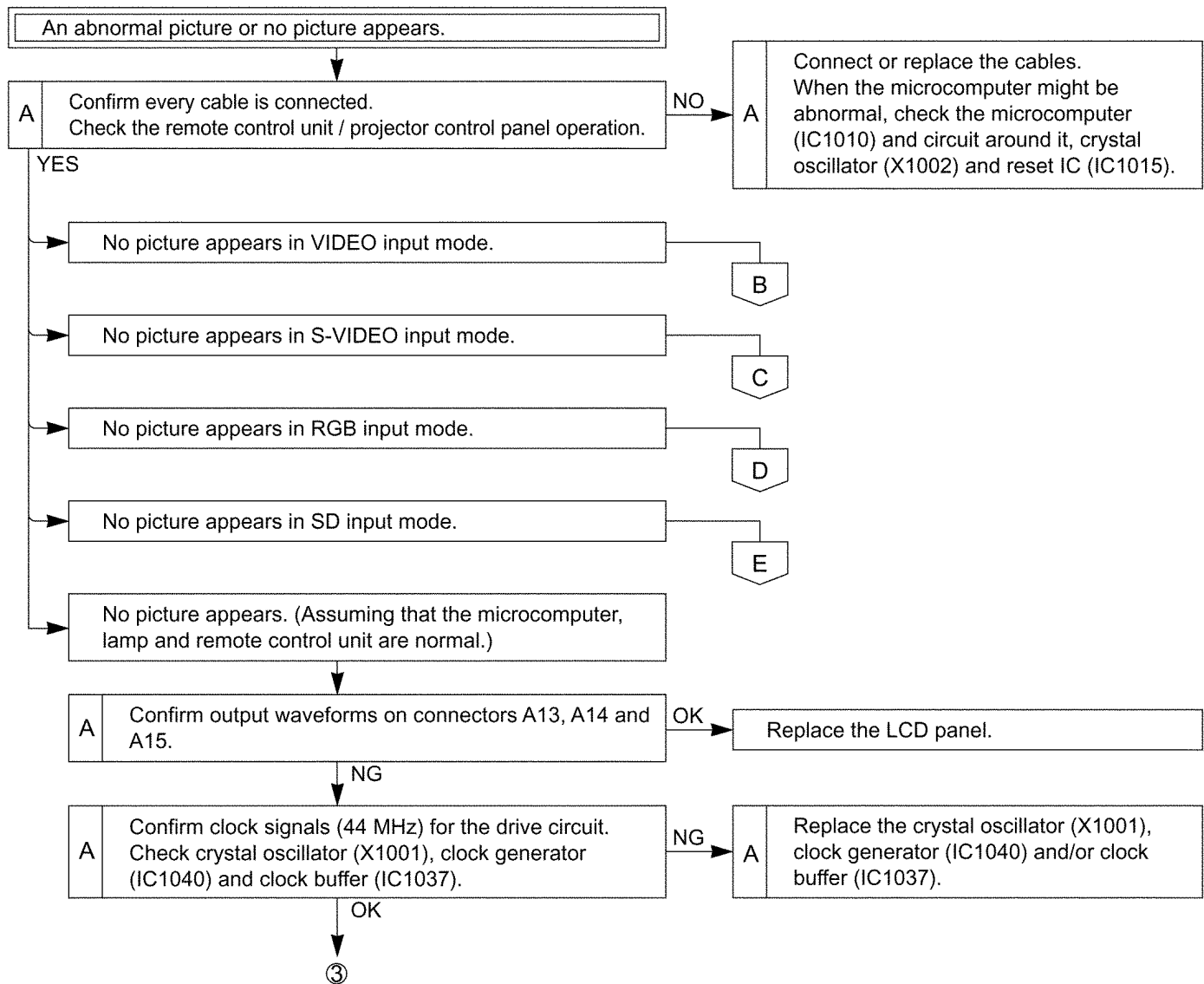


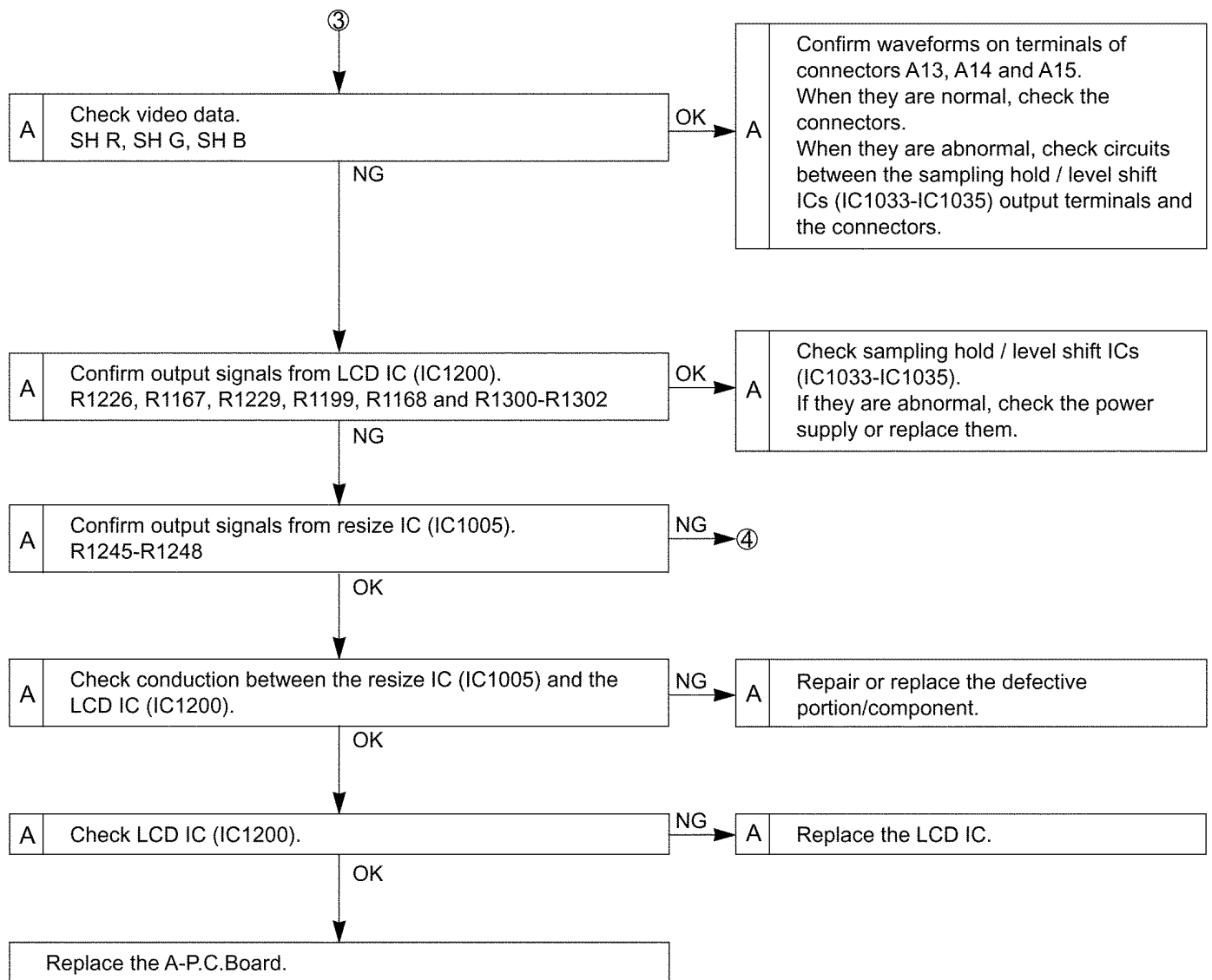


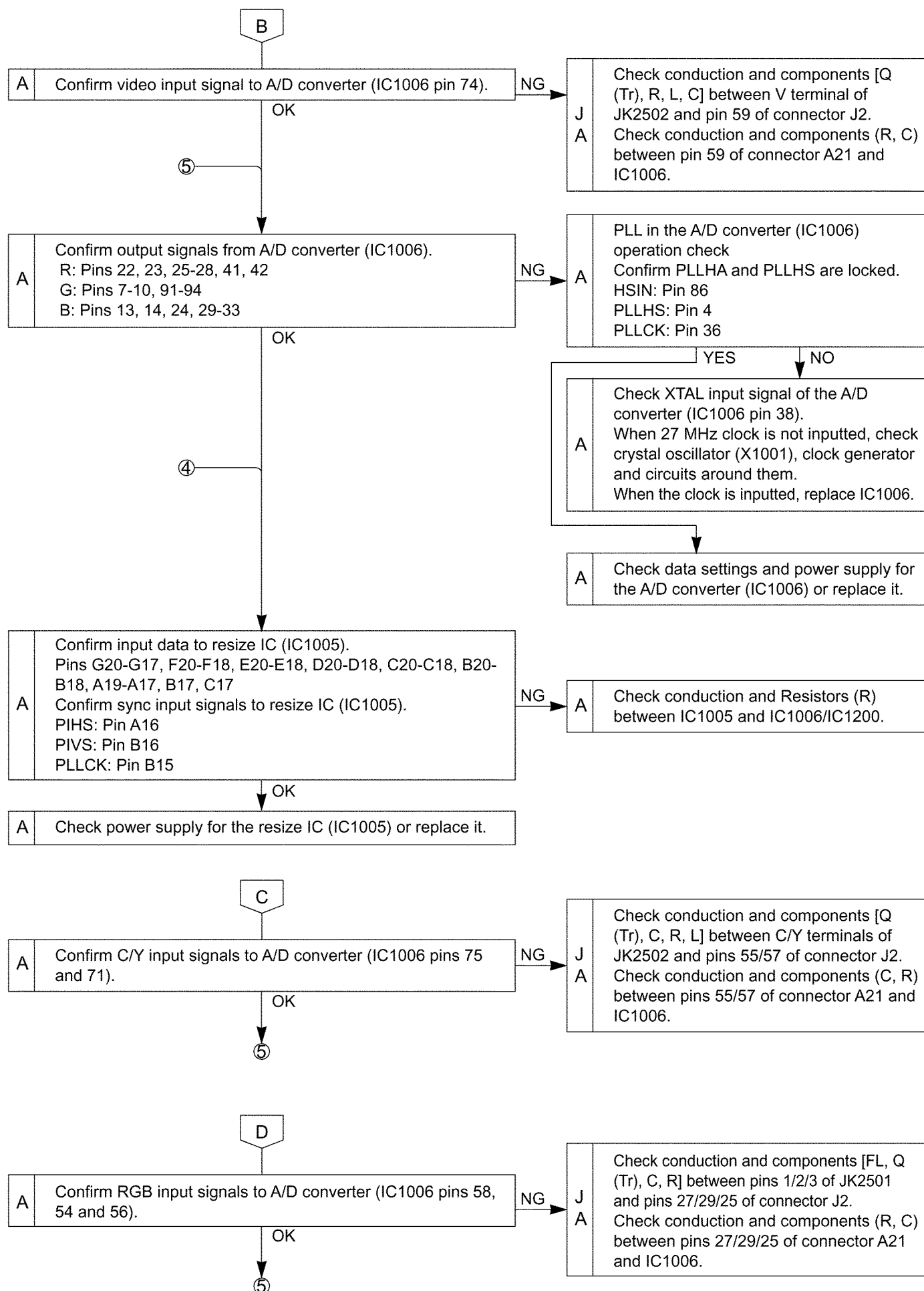


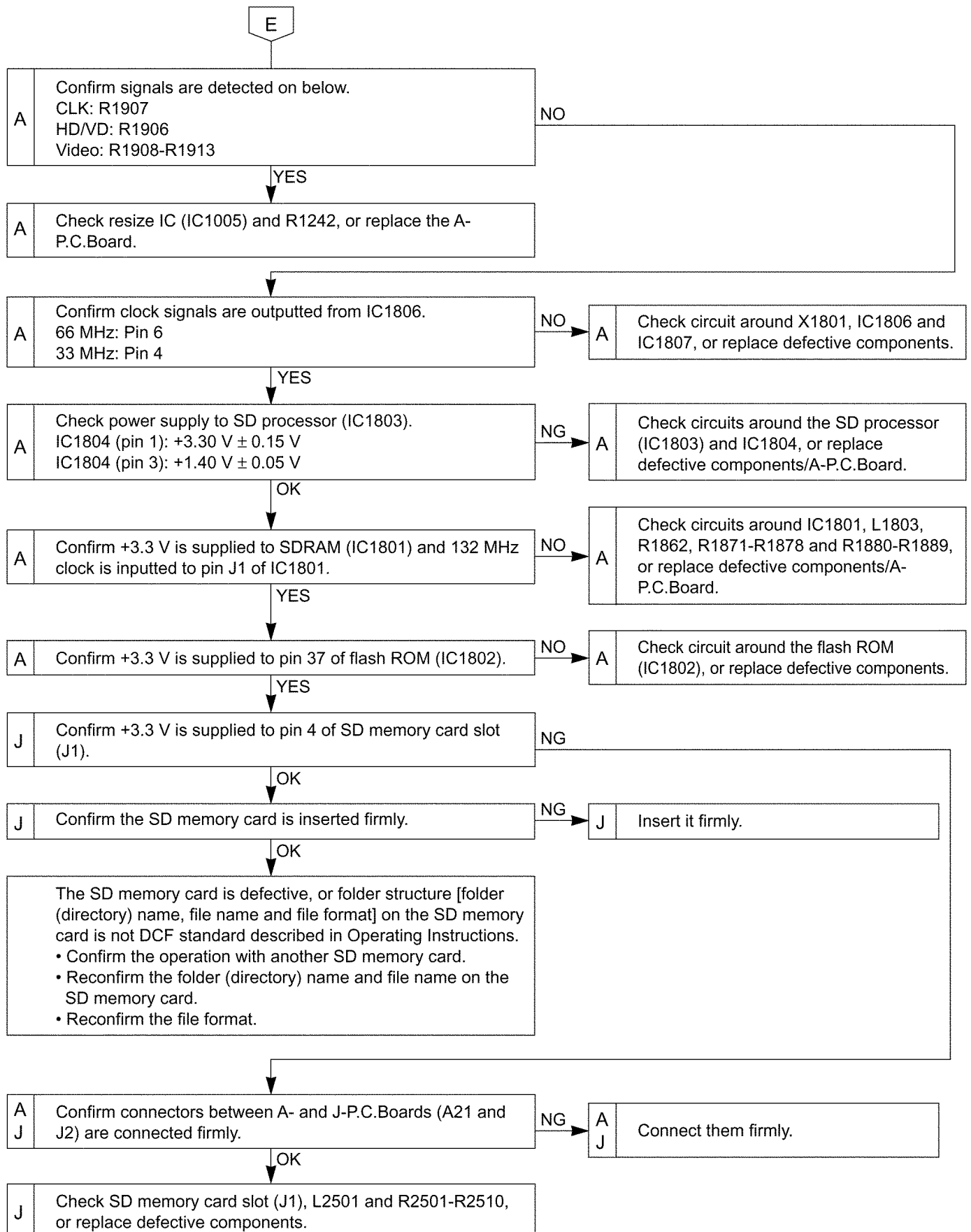


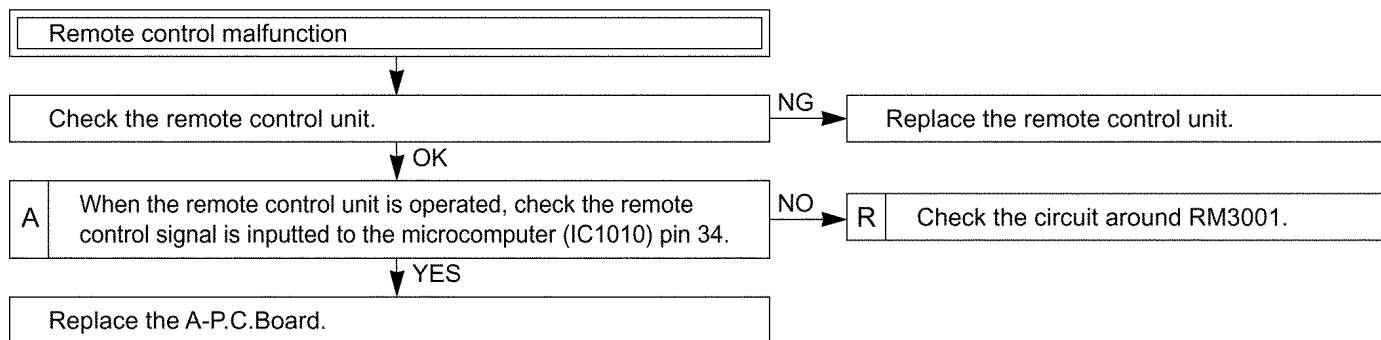








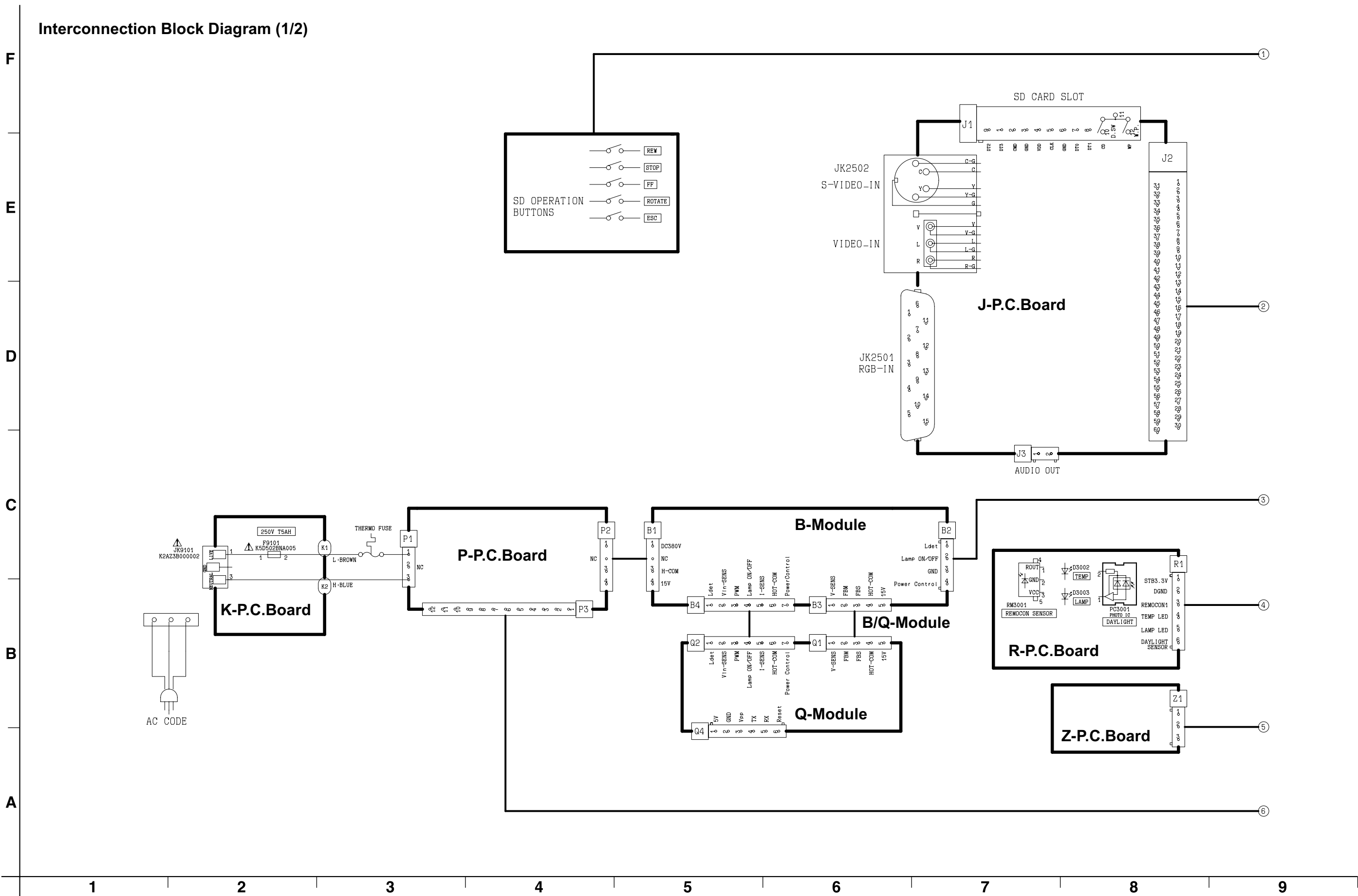




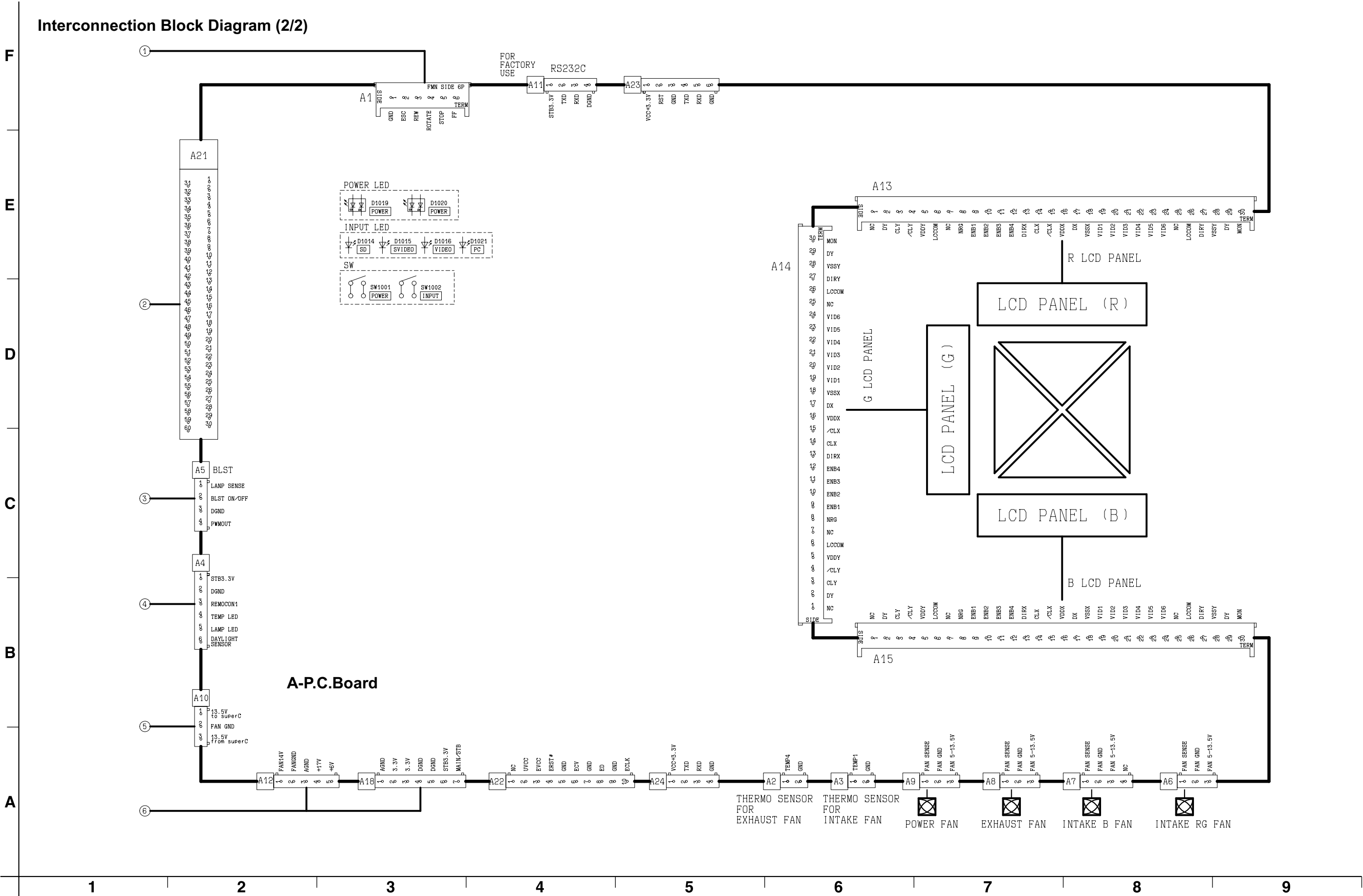
9 Interconnection Block Diagram

9.1. Interconnection Block Diagram (1/2)

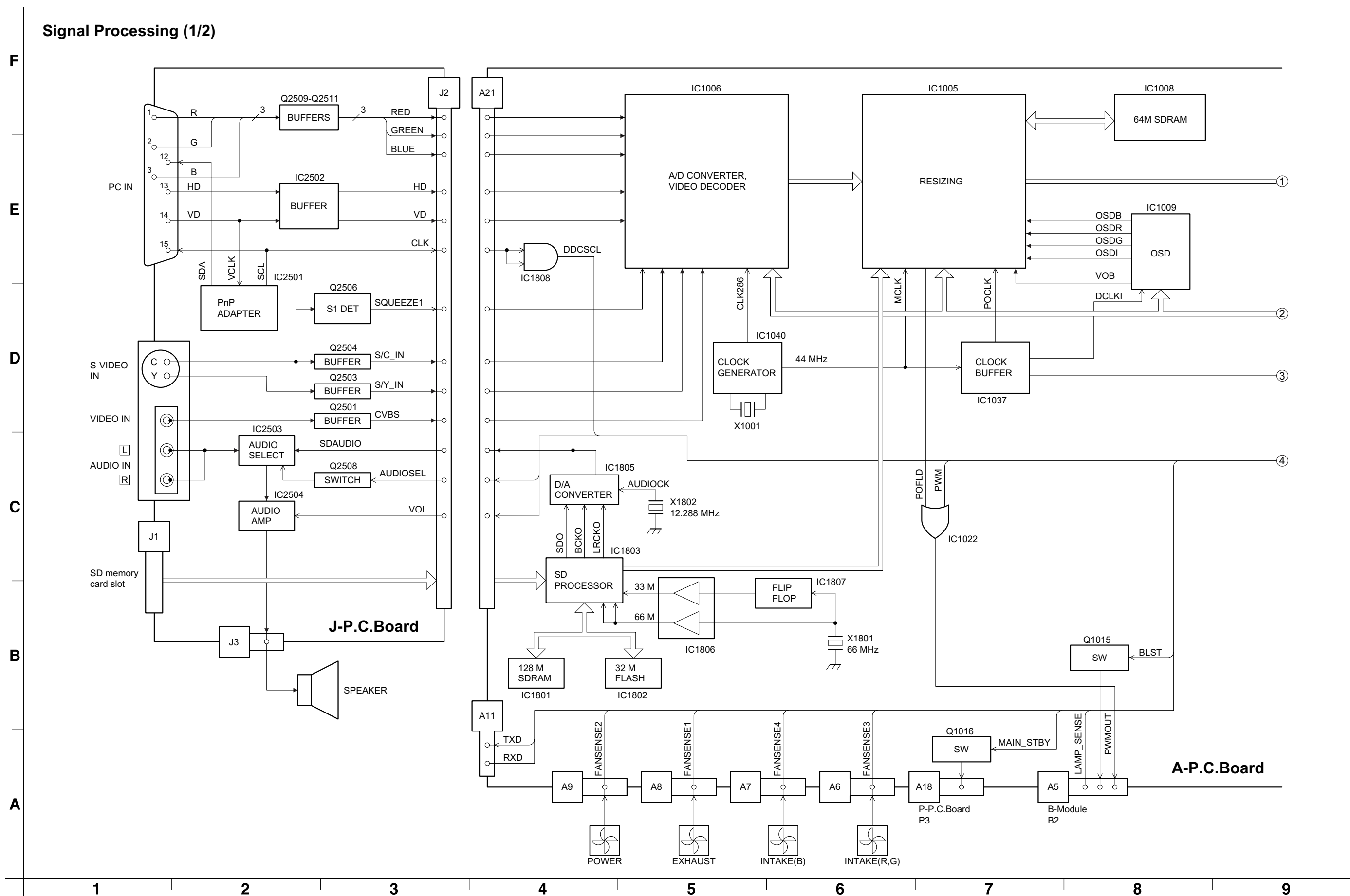
Interconnection Block Diagram (1/2)



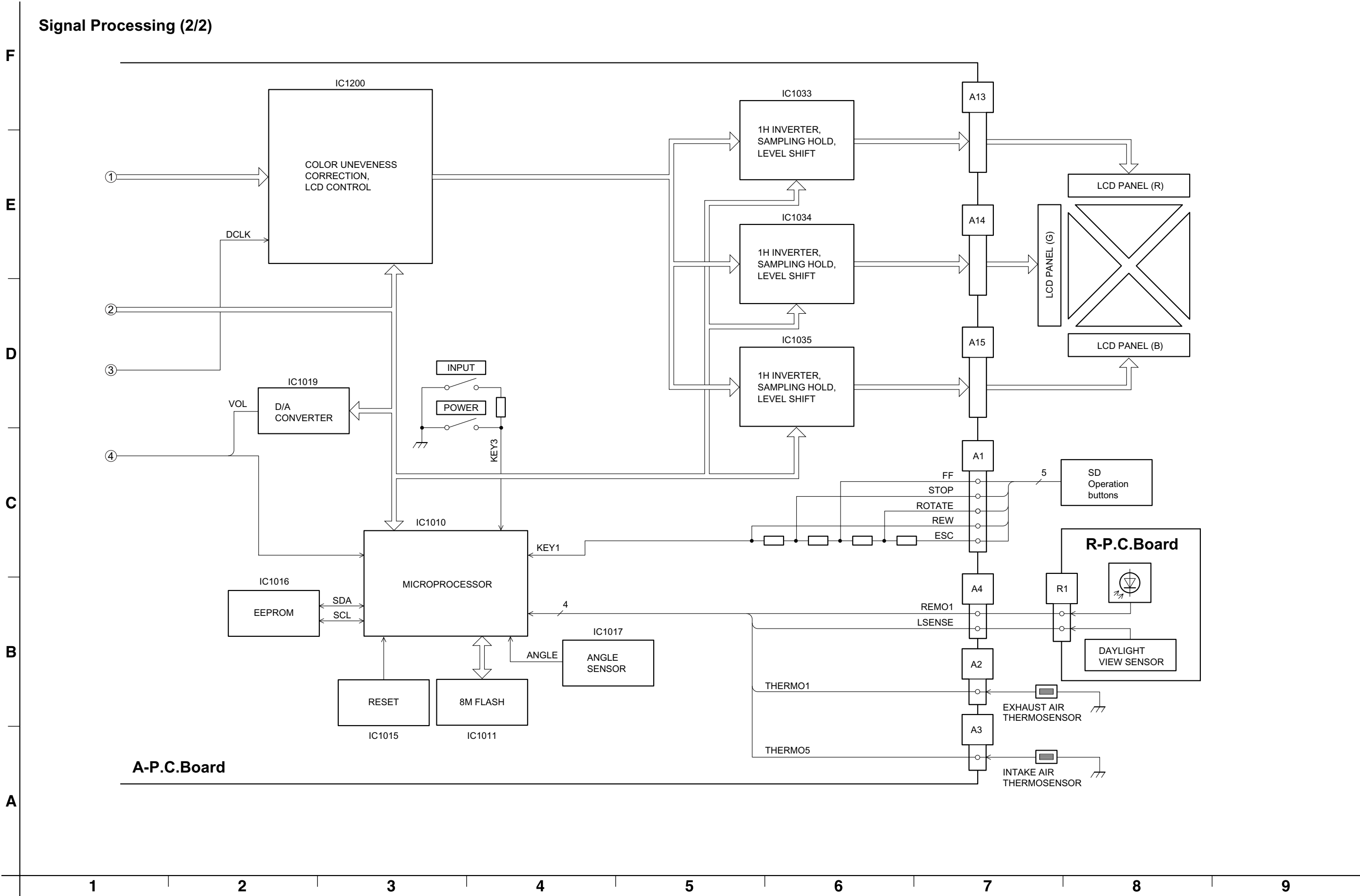
9.2. Interconnection Block Diagram (2/2)



10.2. Signal Processing (1/2)



10.3. Signal Processing (2/2)



11 Schematic Diagram


Schematic Diagram for Model PT-P1SDU

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Schematic Diagram for Model PT-P1SDE/P1SDEA

Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.


Notes:


1. Resistor


All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).


 : Nonflammable

 : Metal Oxide


 : Solid


 : Metal Film


 : Wire Wound


 : Fuse


2. Capacitor


 : Temperature Compensation


 : Electrolytic


 : Polyester

 : Bipolar

 : Metalized Polyester

 : Dipped Tantalum


 : Polypropylene

 : Z-Type

3. Coil

The unit of inductance is a H, unless otherwise noted.





4. Test Point

 : Test Point

5. Voltage Measurement

The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.

6. Color code for the links between diagrams and circuit boards

From/To		To/From	Color code
Block diagram		Schematic diagram	Magenta
Schematic diagram		Schematic diagram	Green
Schematic diagram		Circuit boards	Yellow
Schematic diagram		Waveforms	Cyan (Light blue)

7. HOT and COLD indications

The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:

8. This schematic diagram is the latest at the time of printing and the subject to change without notice.

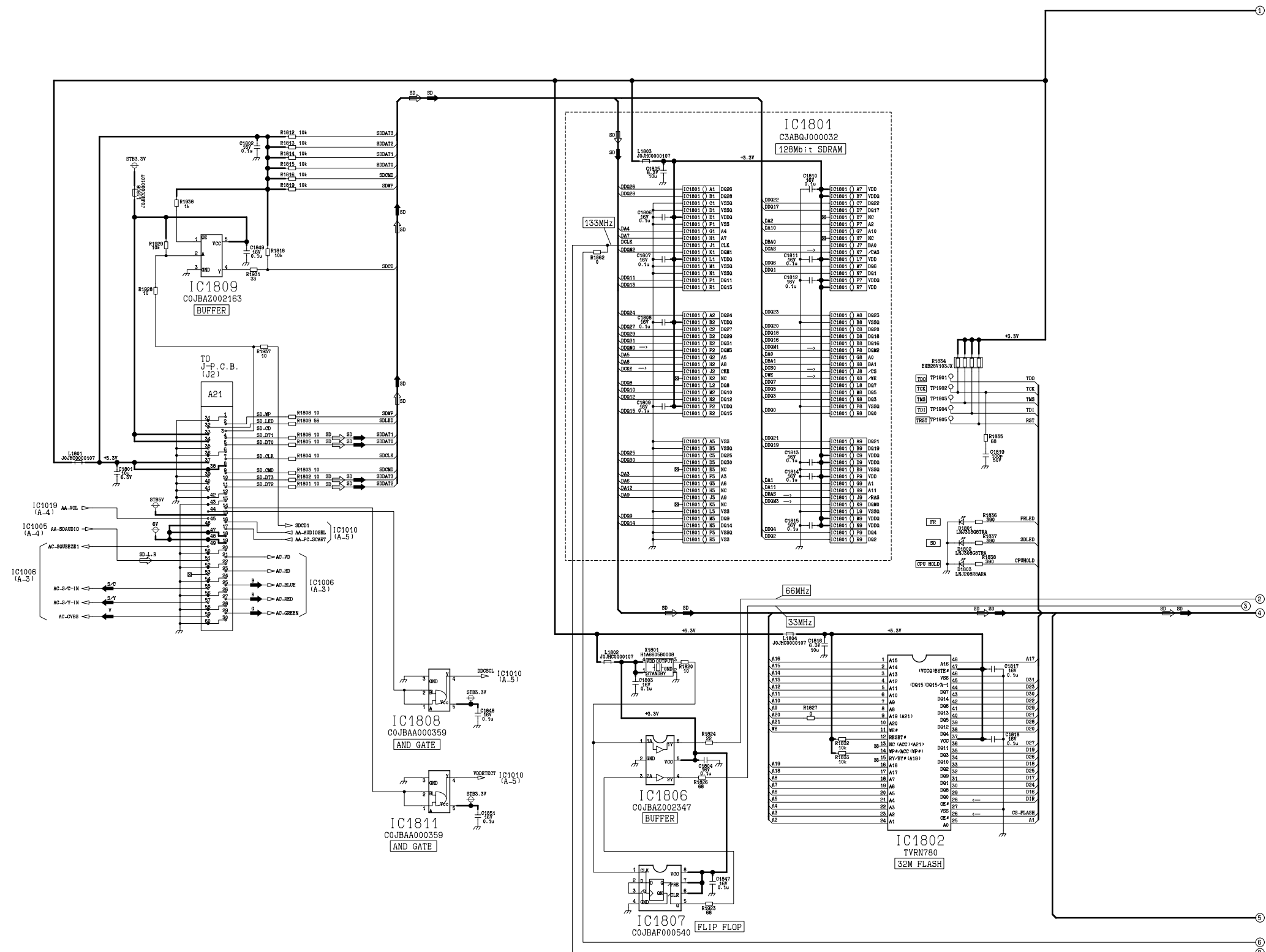
Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

11.1. A-P.C.Board (1/6)

A-P.C.Board (1/6)

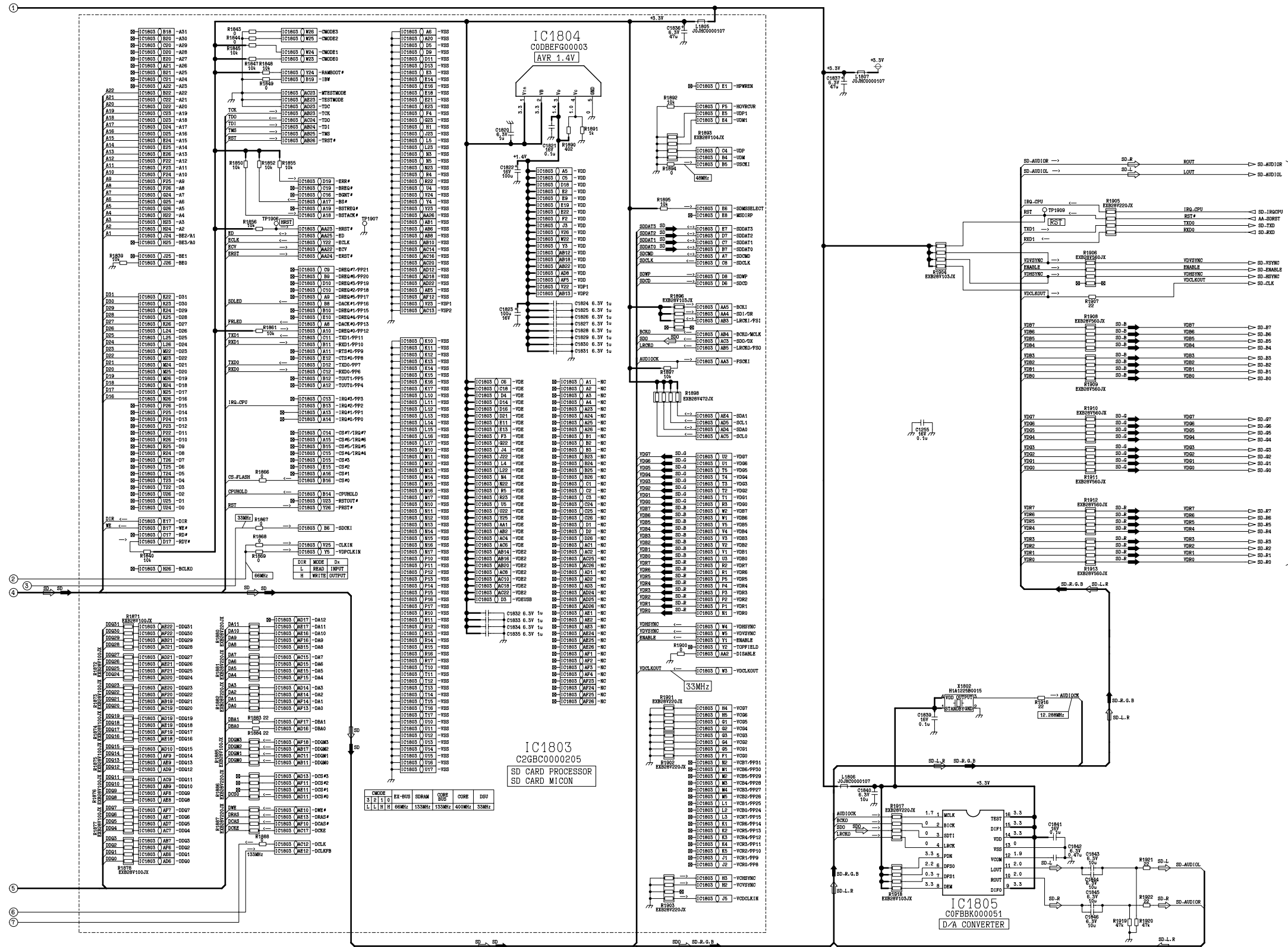
TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)



11.2. A-P.C.Board (2/6)

A-P.C.Board (2/6)

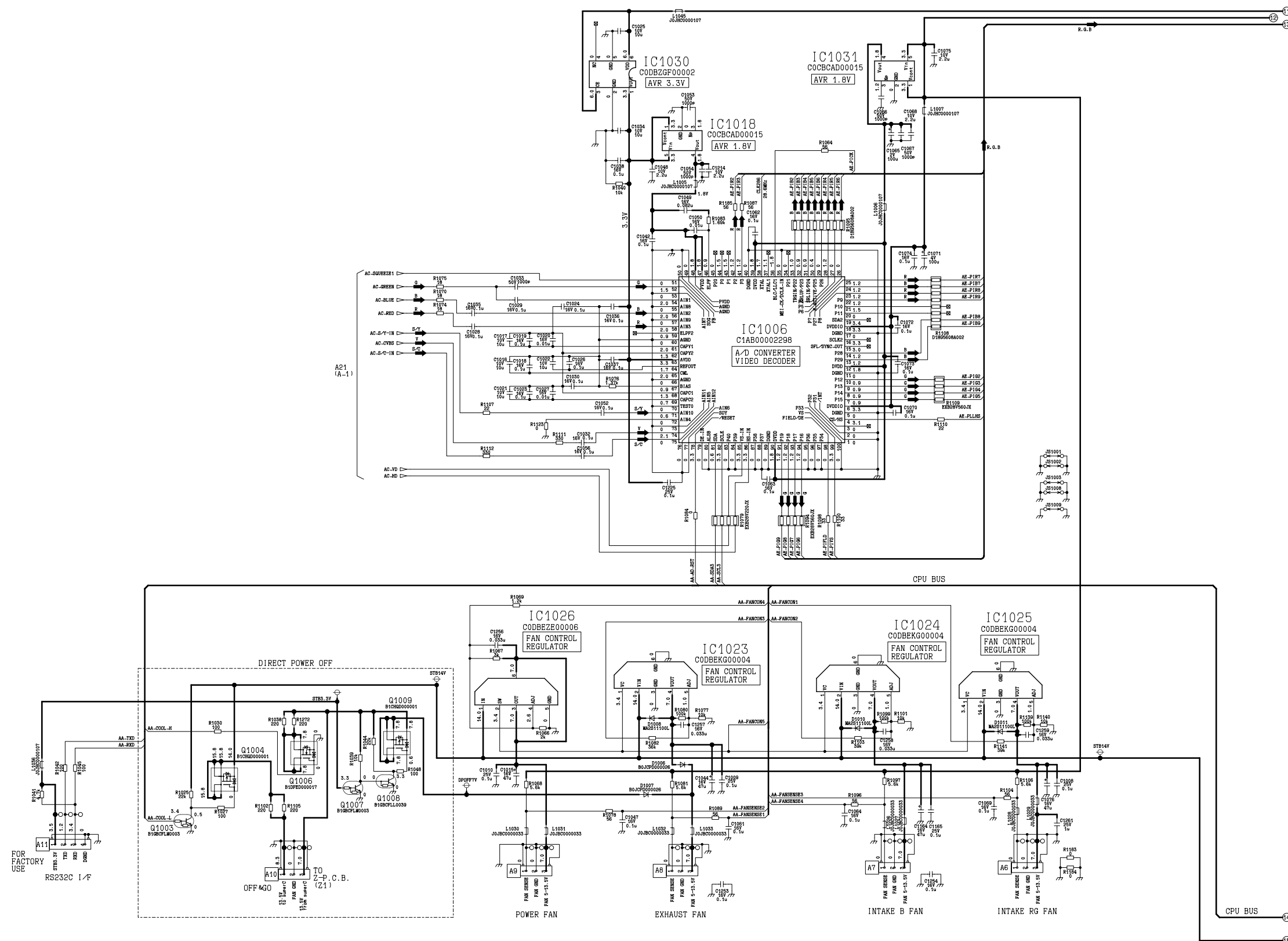
TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)



11.3. A-P.C.Board (3/6)

A-P.C.Board (3/6)

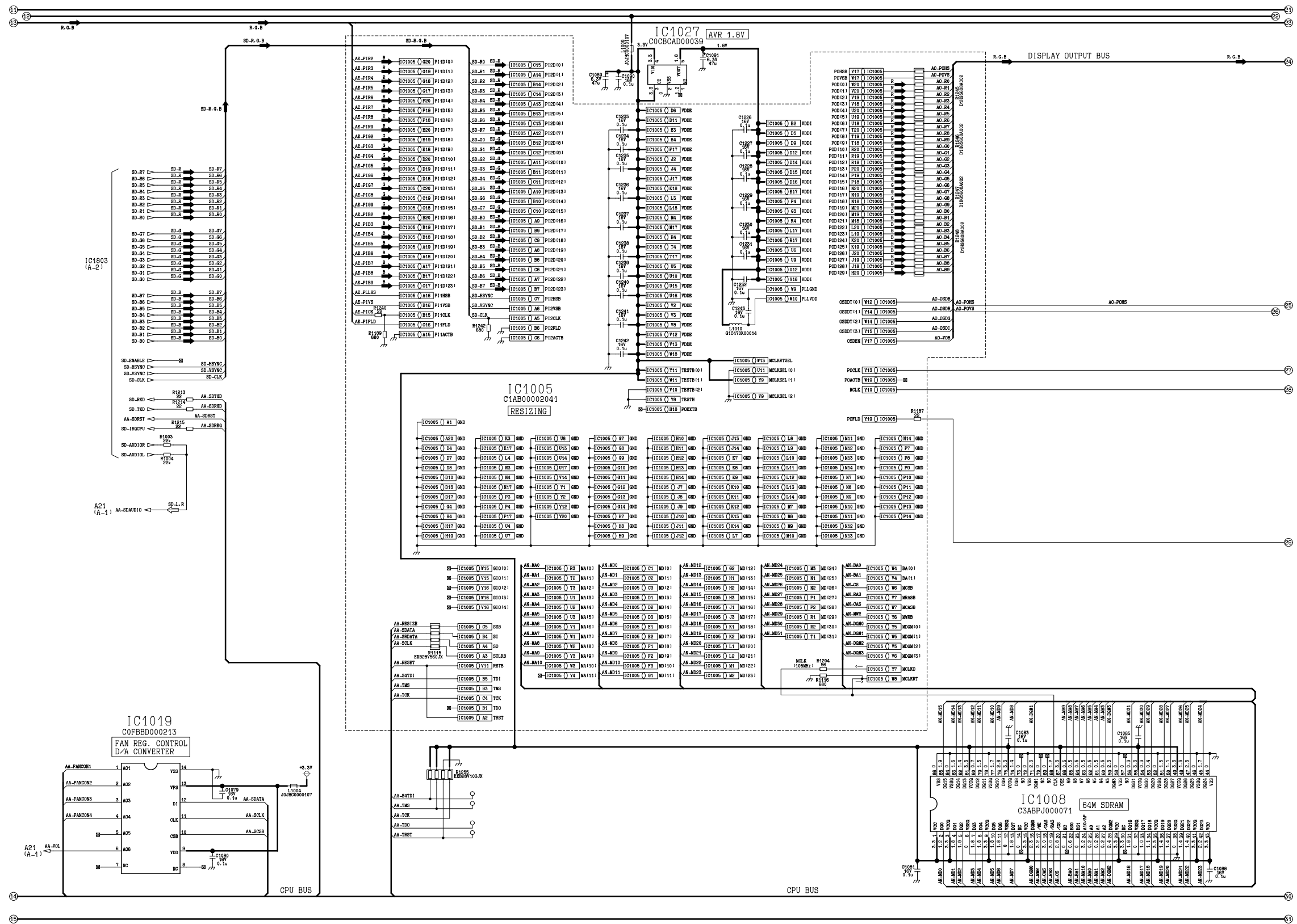
TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)



11.4. A-P.C.Board (4/6)

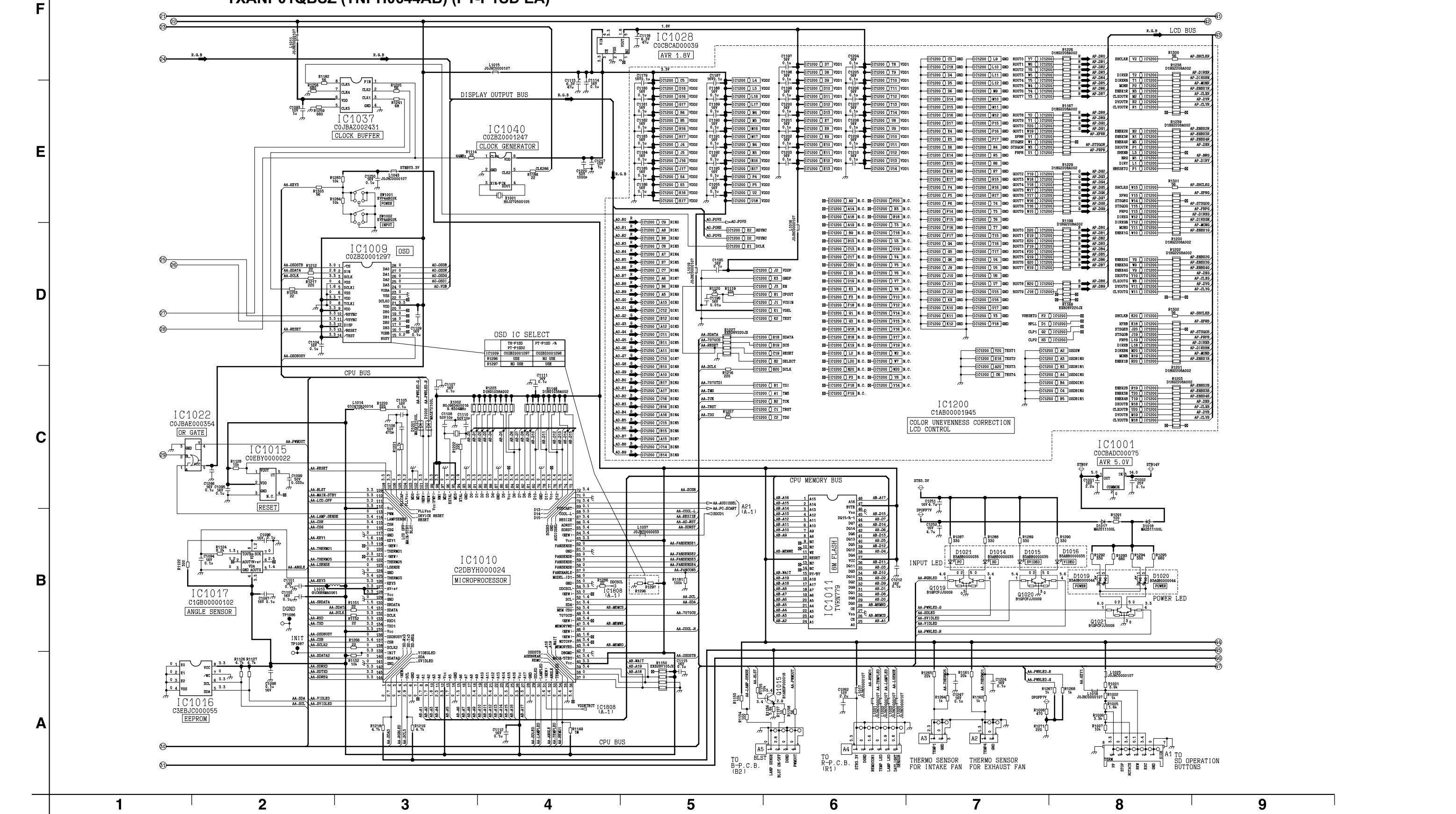
A-P.C.Board (4/6)

TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)



11.5. A-P.C.Board (5/6)

A-P.C.Board (5/6) TXANP01VKB5 (TNP0644) (PT-P1SD U/E)
TXANP01QBSZ (TNP0644AB) (PT-P1SD EA)

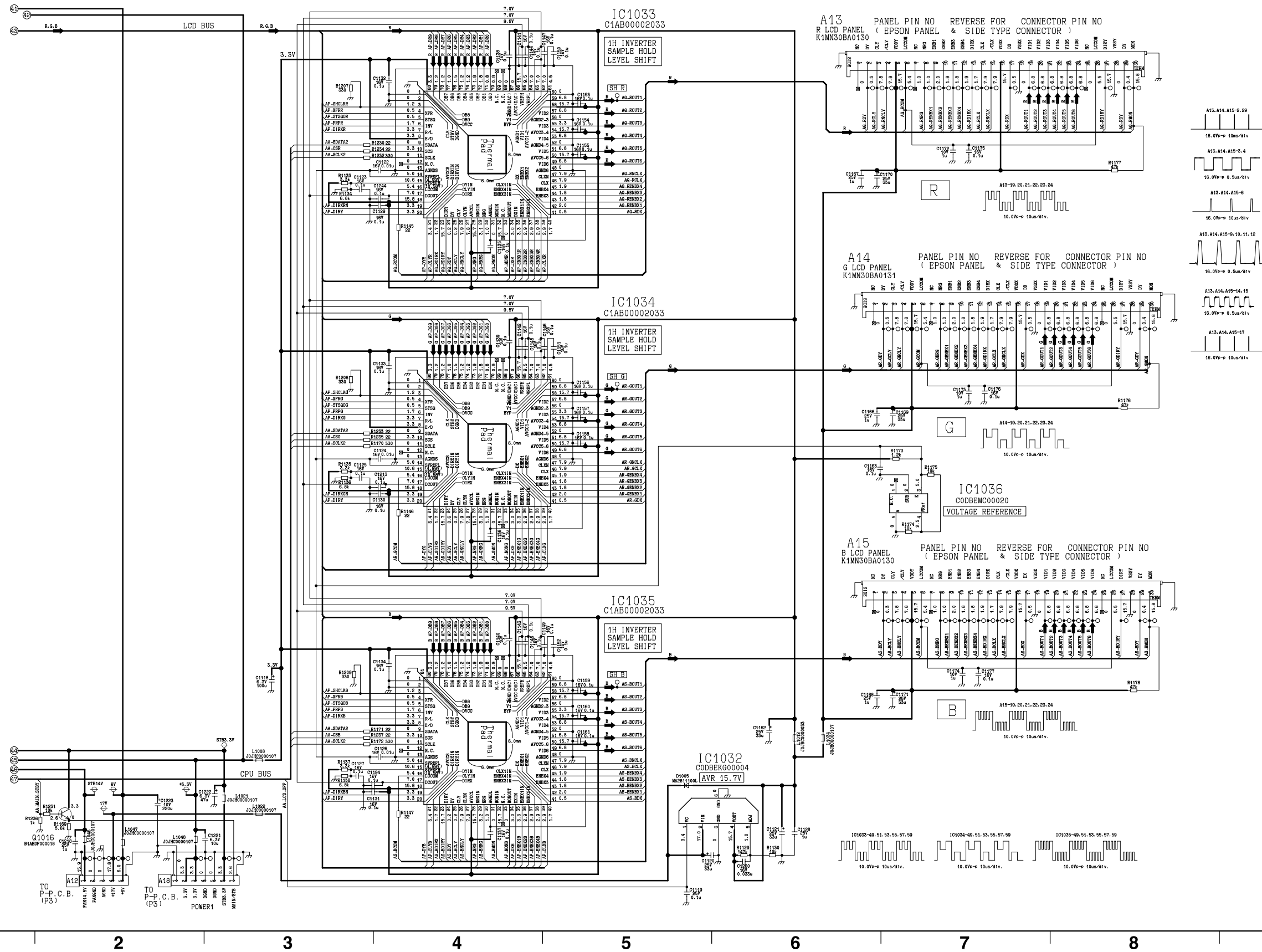


11.6. A-P.C.Board (6/6)

A-P.C.Board (6/6)

TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)

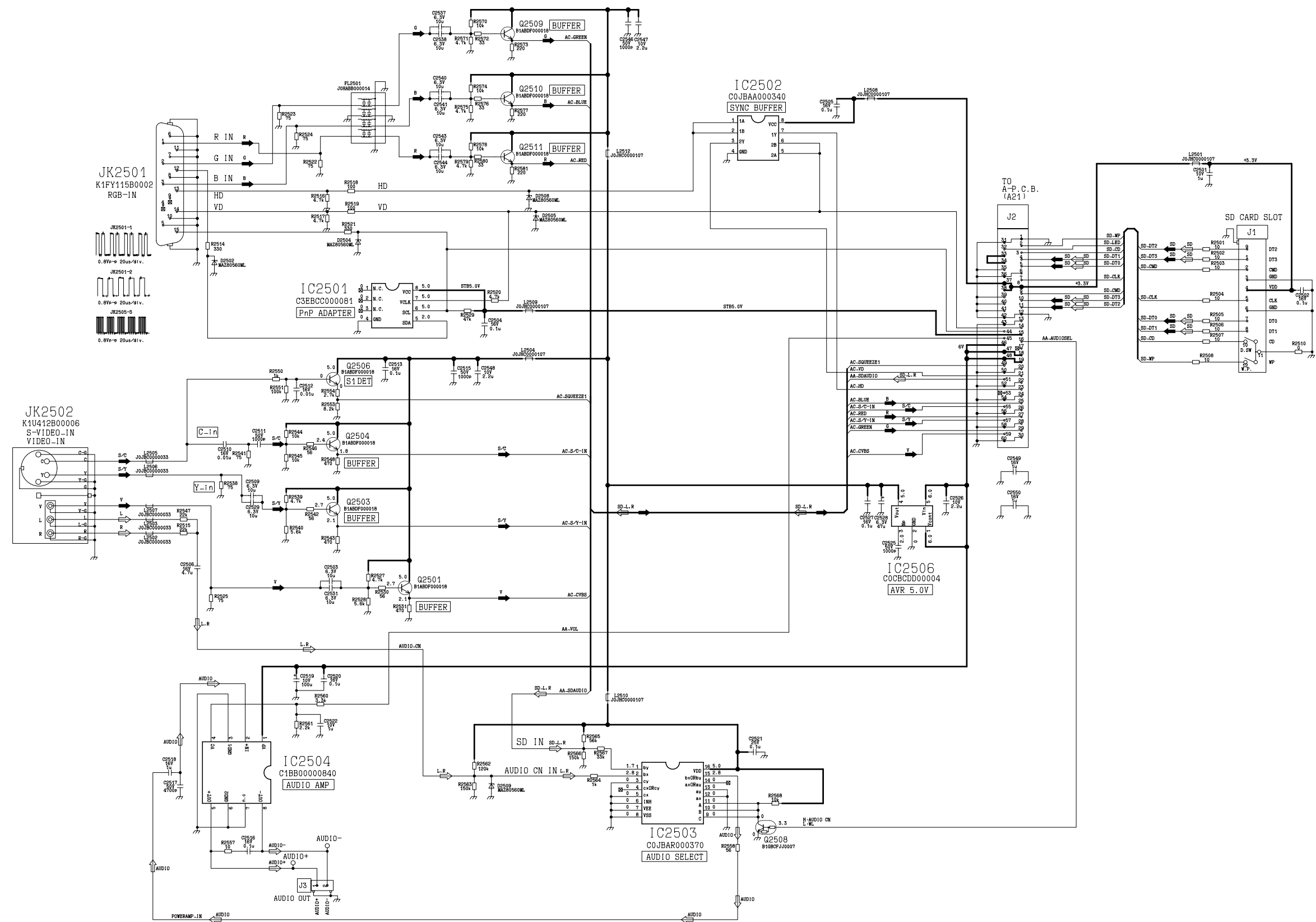
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)



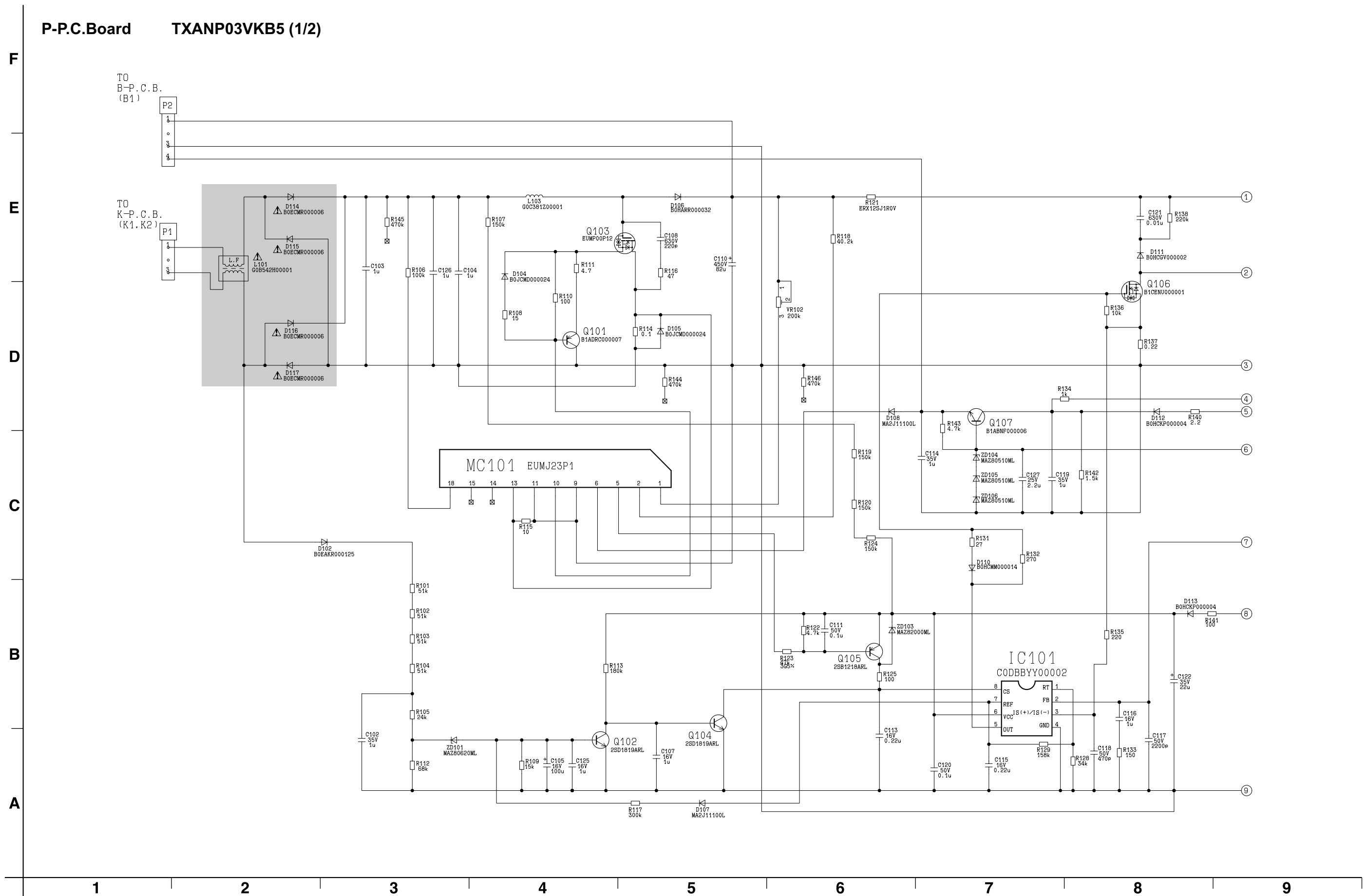
11.7. J-P.C.Board

J-P.C.Board

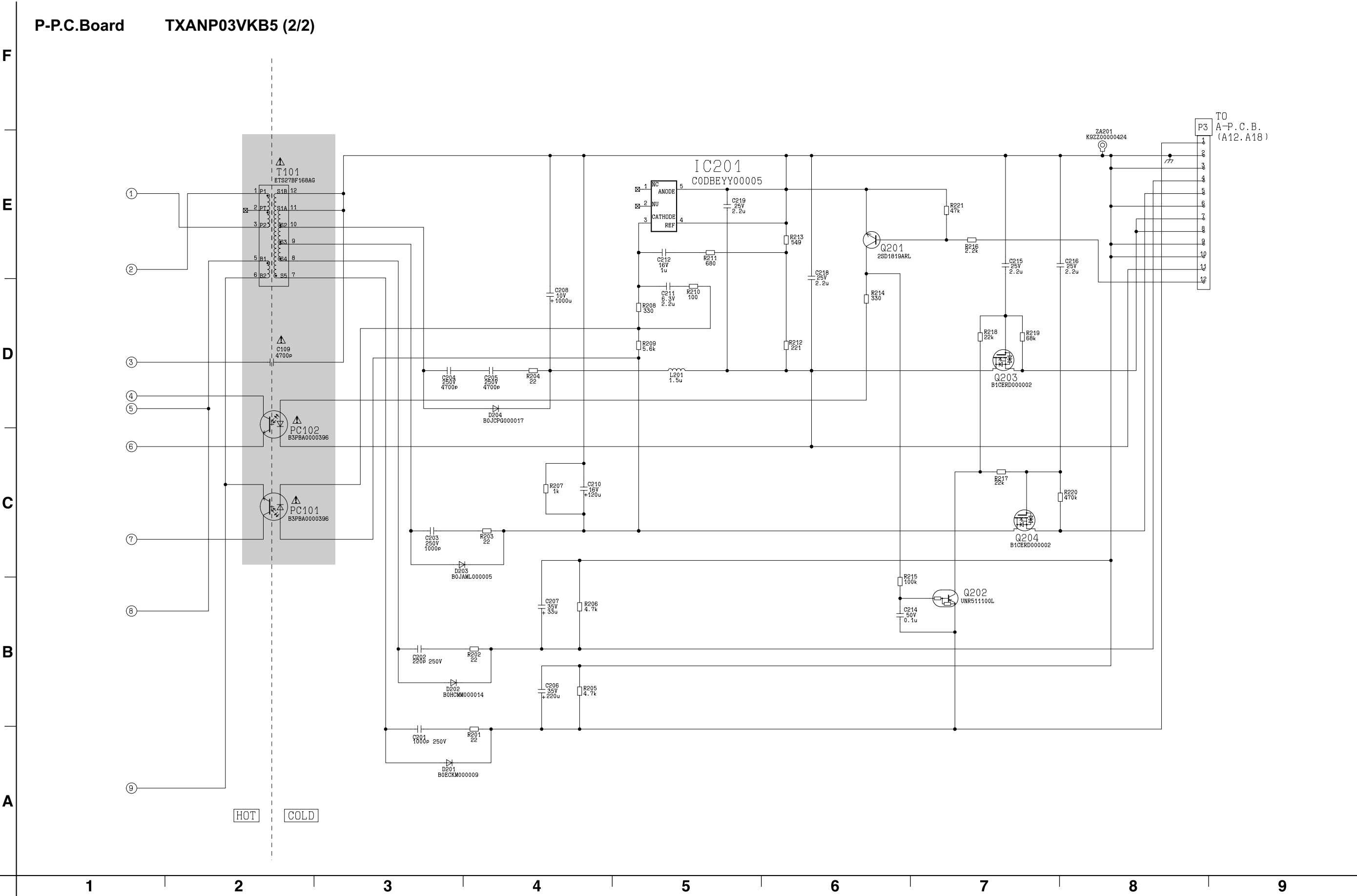
TNPA3730



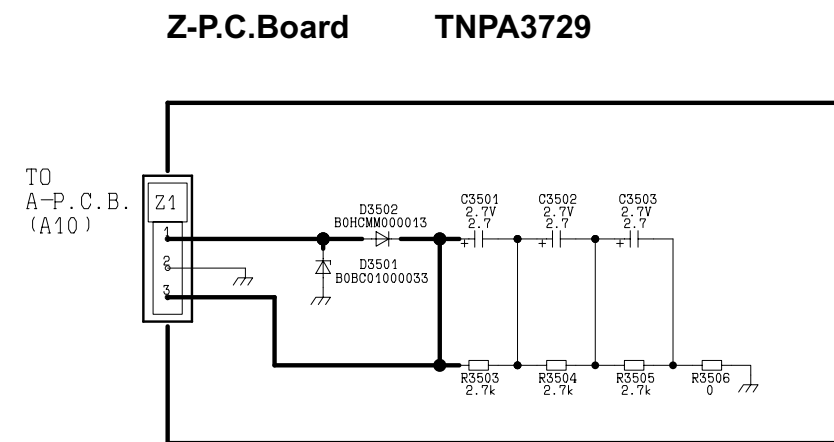
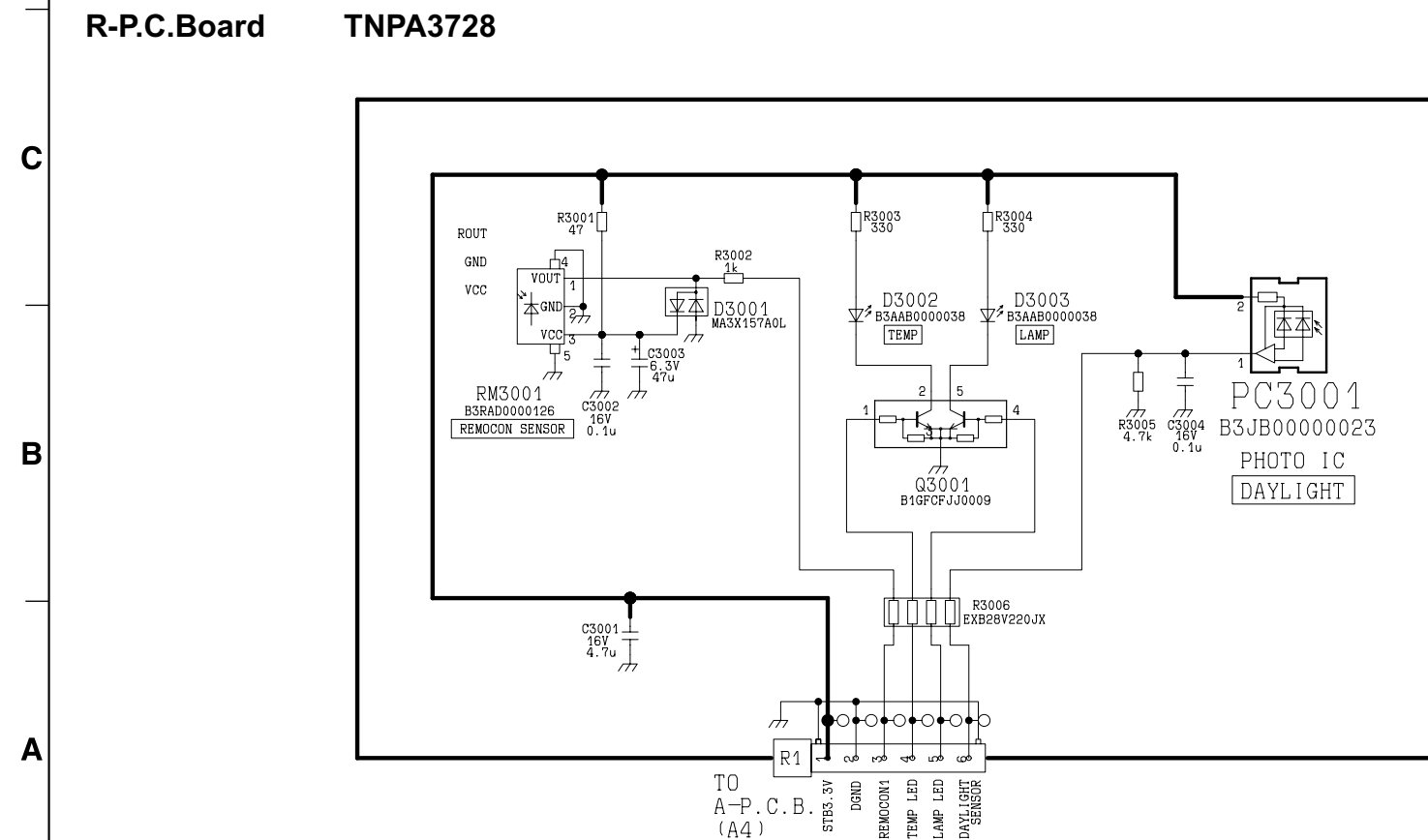
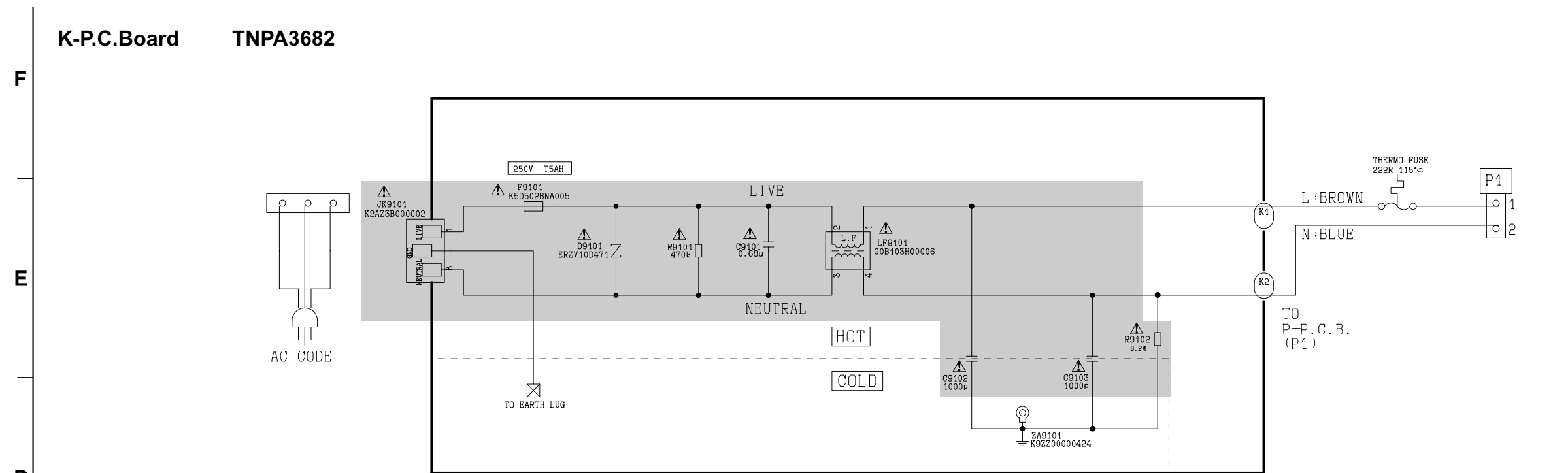
11.8. P-P.C.Board (1/2)



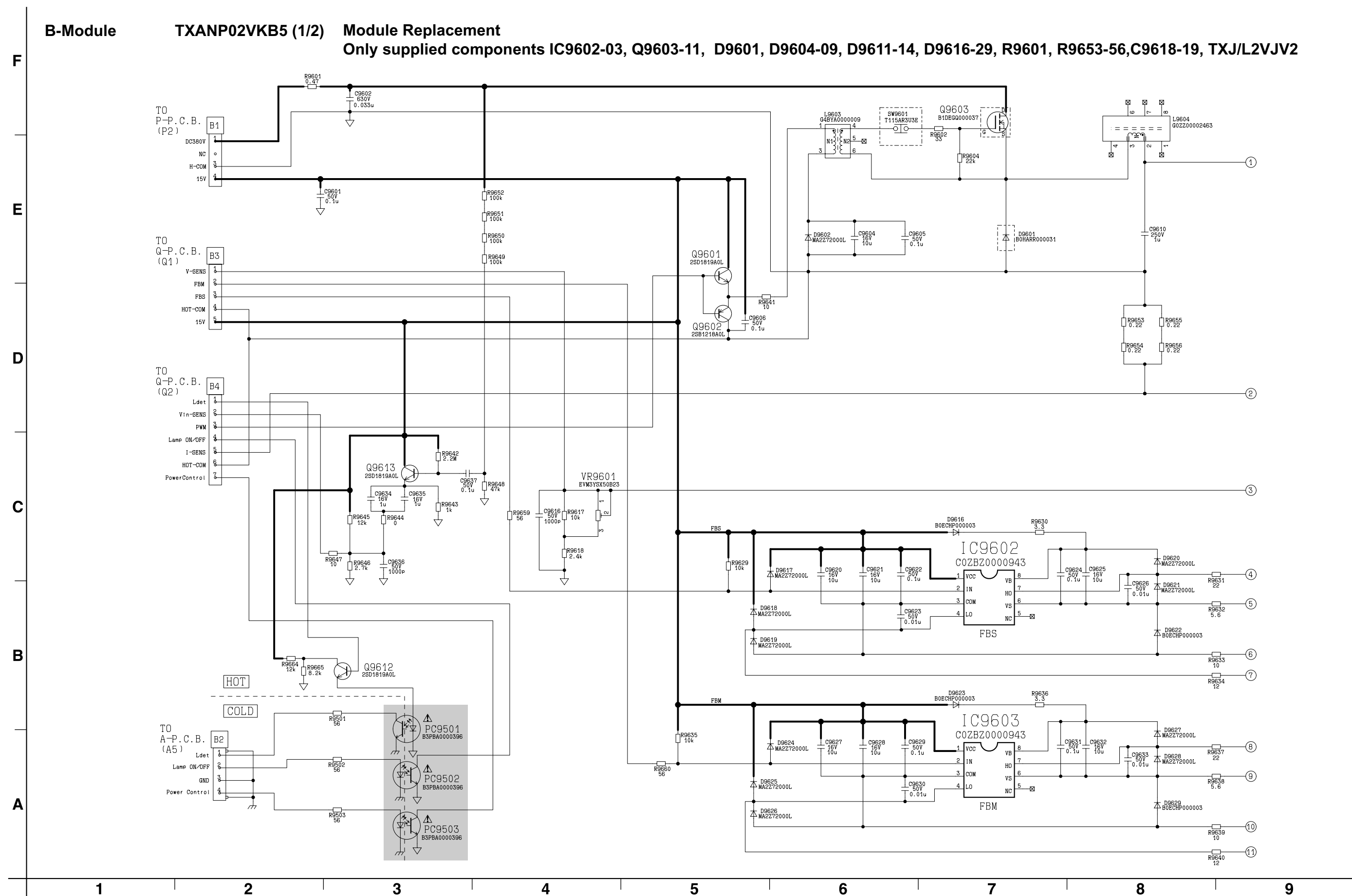
11.9. P-P.C.Board (2/2)



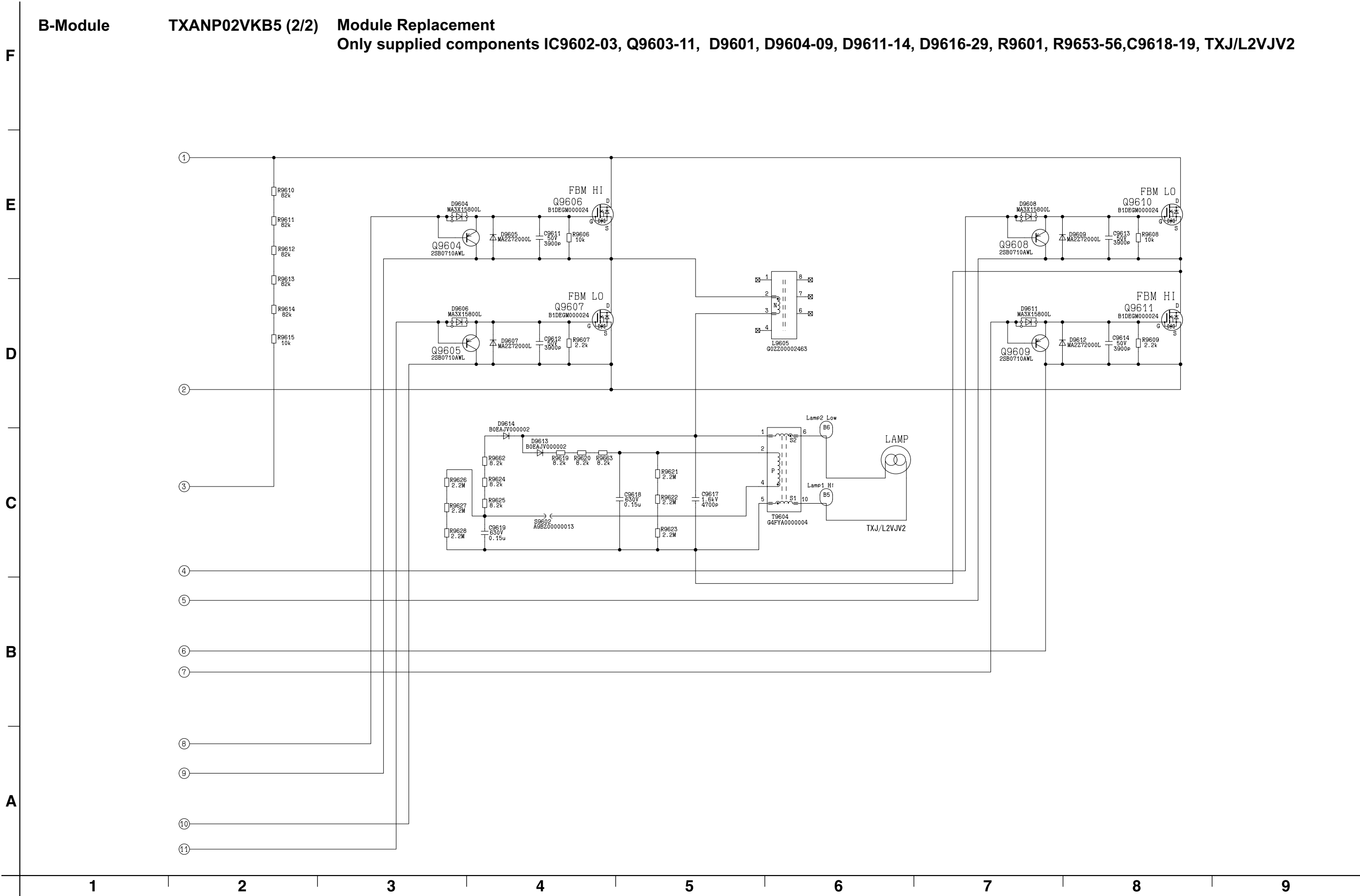
11.10. K-P.C.Board / R-P.C.Board / Z-P.C.Board



11.11. B-Module (1/2)



11.12. B-Module (2/2)



12 Circuit Boards

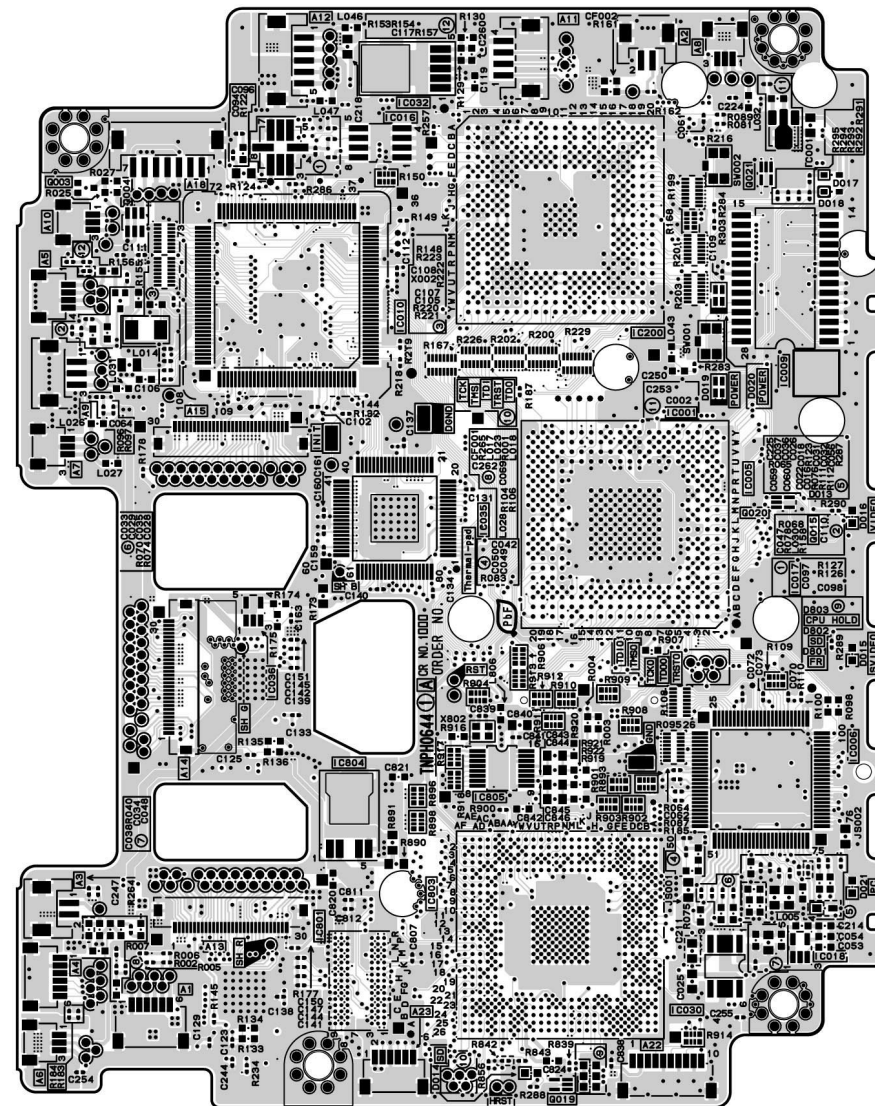
12.1. A-P.C.Board

**A-P.C.Board
(Foil Side)**

TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)

A-P.C.Board (Foil Side)					
IC				TRANSISTOR	
IC1001	C-3	IC1032	D-2	Q1003	D-1
IC1005	C-3	IC1035	C-2	Q1004	D-1
IC1006	B-3	IC1036	B-1	Q1015	C-3
IC1009	C-3	IC1200	C-3	Q1019	A-2
IC1010	D-2	IC1801	A-2	Q1020	C-3
IC1016	C-2	IC1803	A-2	Q1021	D-3
IC1017	B-3	IC1804	B-2		
IC1018	A-3	IC1805	B-2		
IC1030	A-3				

ADDRESS INFORMATION

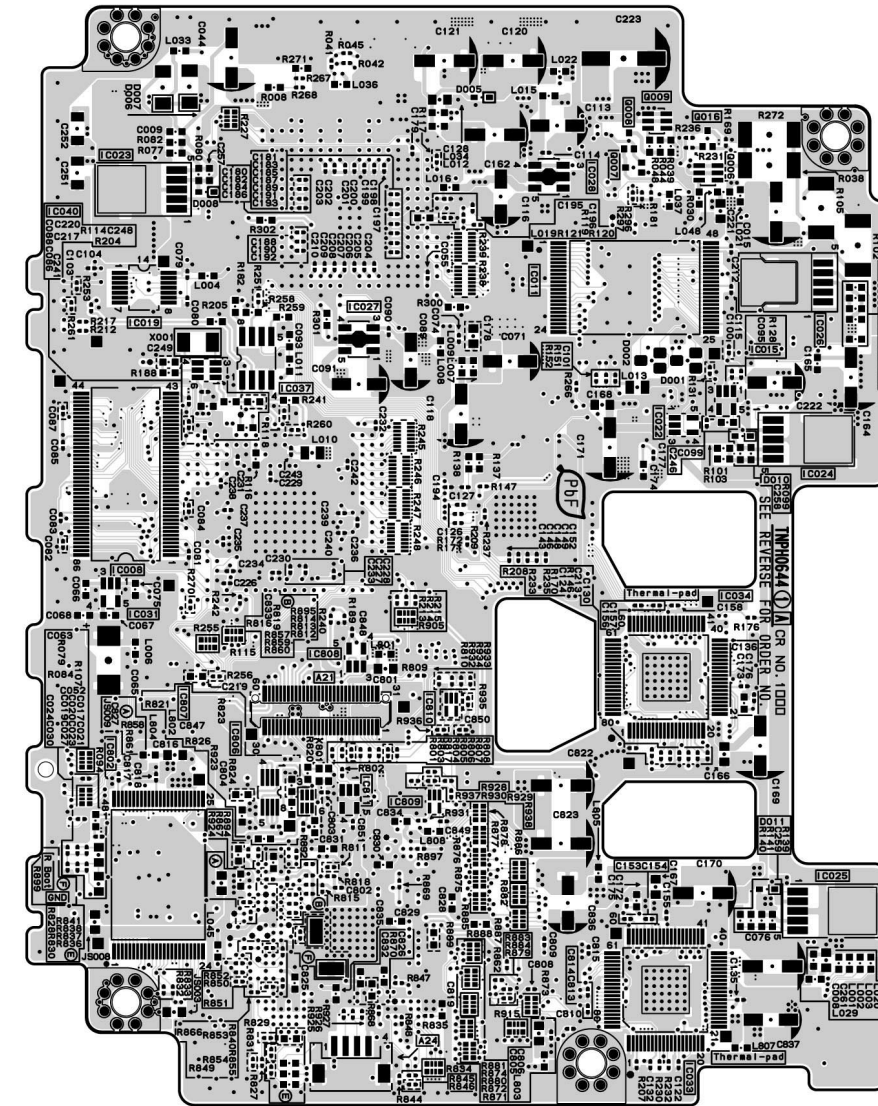


**A-P.C.Board
(Component**

TXANP01VKB5 (TNPH0644) (PT-P1SD U/E)
TXANP01QBSZ (TNPH0644AB) (PT-P1SD EA)

A-P.C.Board (Component Side)					
IC				TRANSISTOR	
IC1008	C-6	IC1033	A-8	Q1006	D-8
IC1011	C-7	IC1034	B-8	Q1007	D-7
IC1015	C-8	IC1037	C-6	Q1008	D-7
IC1019	C-6	IC1040	C-6	Q1009	D-8
IC1022	C-8	IC1802	A-6	Q1016	D-8
IC1023	D-6	IC1806	B-6		
IC1024	C-8	IC1807	B-6		
IC1025	A-8	IC1808	B-7		
IC1026	C-8	IC1809	B-7		
IC1027	C-7	IC1810	B-7		
IC1028	D-7	IC1811	B-7		
IC1031	B-6				

ADDRESS INFORMATION



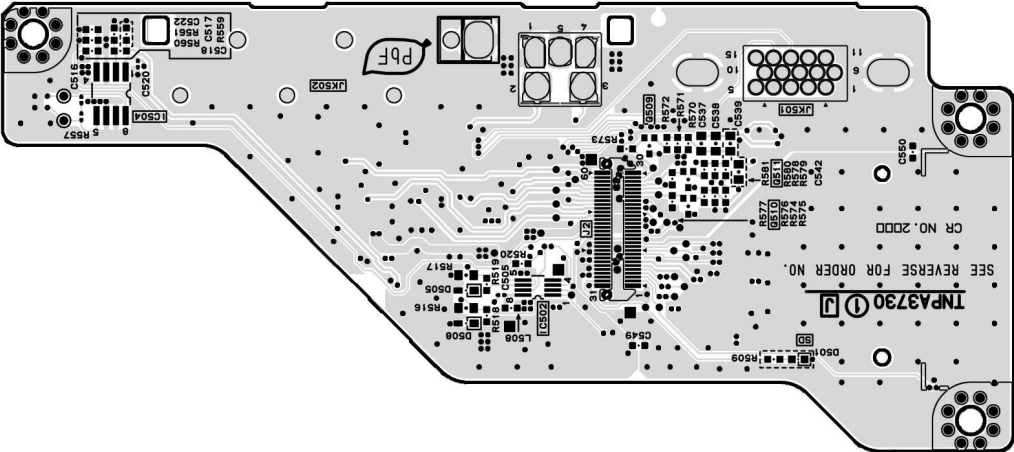
12.2. J-P.C.Board / P-P.C.Board / R-P.C.Board

F

J-P.C.Board TNPA3730
(Foil Side)

J-P.C.Board (Foil Side)					
IC		TRANSISTOR			
IC2502	E-2	Q2509	E-3	Q2511	E-3
IC2504	E-1	Q2510	E-3		

ADDRESS INFORMATION



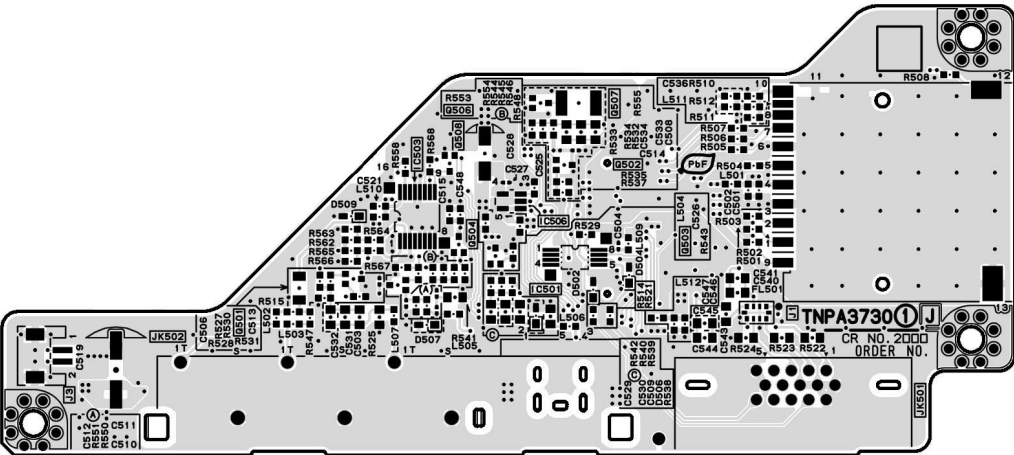
E

D

J-P.C.Board TNPA3730
(Component Side)

J-P.C.Board (Component Side)					
IC		TRANSISTOR			
IC2501	A-2	Q2501	A-2	Q2508	B-2
IC2503	A-2	Q2503	B-3		
IC2506	A-2	Q2504	A-2		
		Q2506	B-2		

ADDRESS INFORMATION



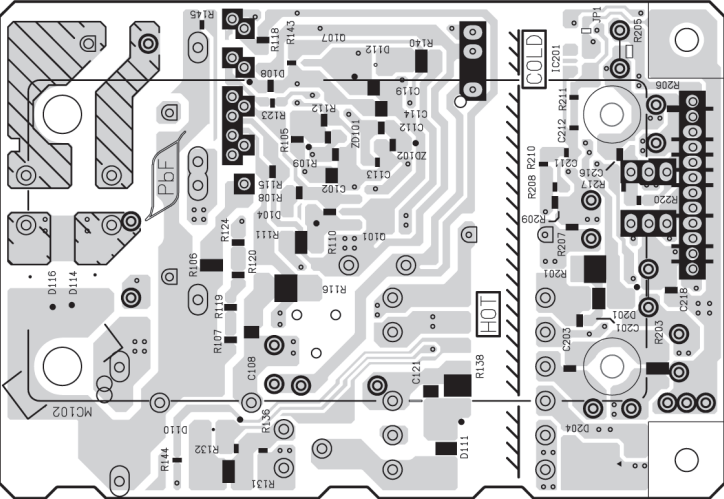
B

A

P-P.C.Board TXANP03VKB5
(Foil Side)

P-P.C.Board (Foil Side)			
IC		TRANSISTOR	
IC201	E-6	Q101	E-6
		Q107	E-6

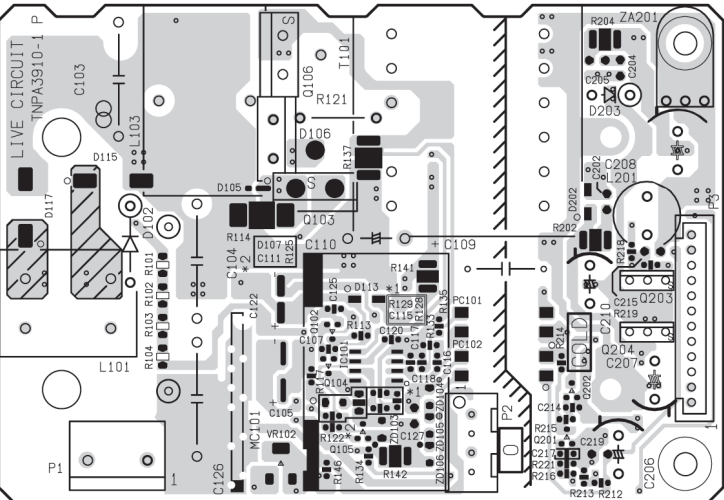
ADDRESS INFORMATION



P-P.C.Board TXANP03VKB5
(Component Side)

P-P.C.Board (Component Side)					
IC		TRANSISTOR			
IC101	A-6	Q102	A-6	Q201	A-6
		Q103	B-6	Q202	A-6
		Q104	A-6	Q203	A-7
		Q105	A-6	Q204	A-7
		Q106	B-5		

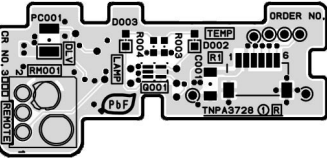
ADDRESS INFORMATION



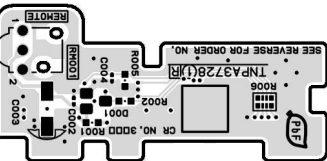
R-P.C.Board TNPA3728
(Foil Side)

R-P.C.Board (Foil Side)	
TRANSISTOR	
Q3001	E-6

ADDRESS INFORMATION

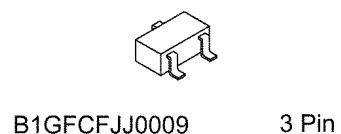
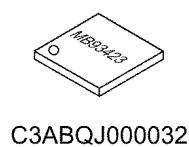
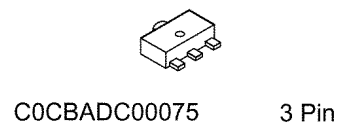
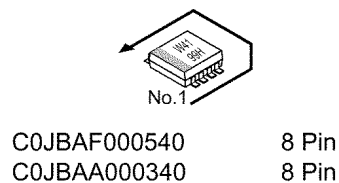
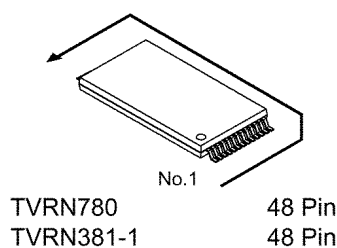
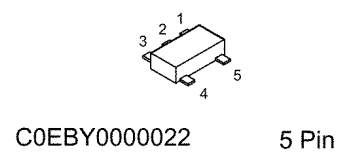
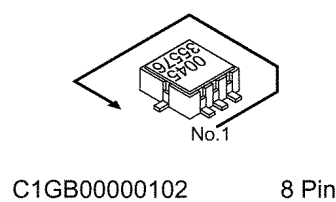
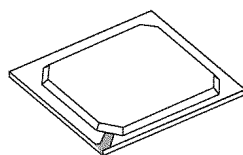
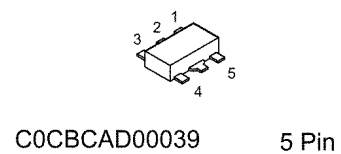
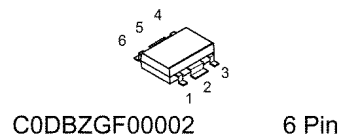
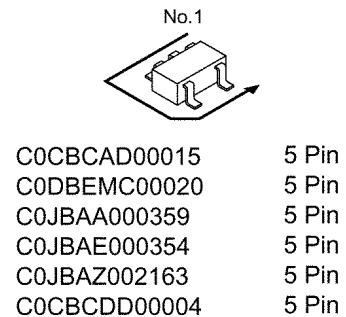
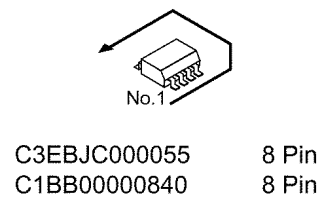
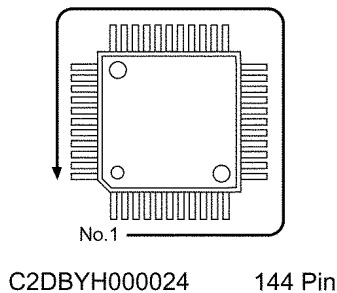
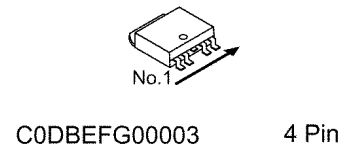
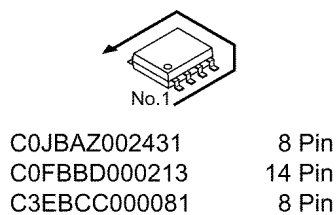
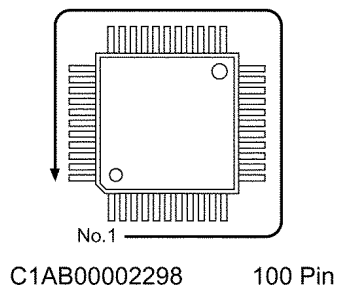
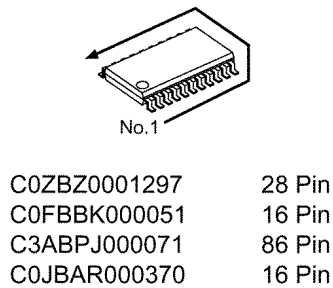
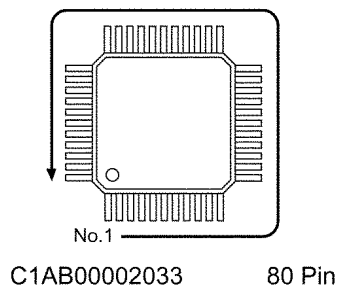


R-P.C.Board TNPA3728
(Component Side)



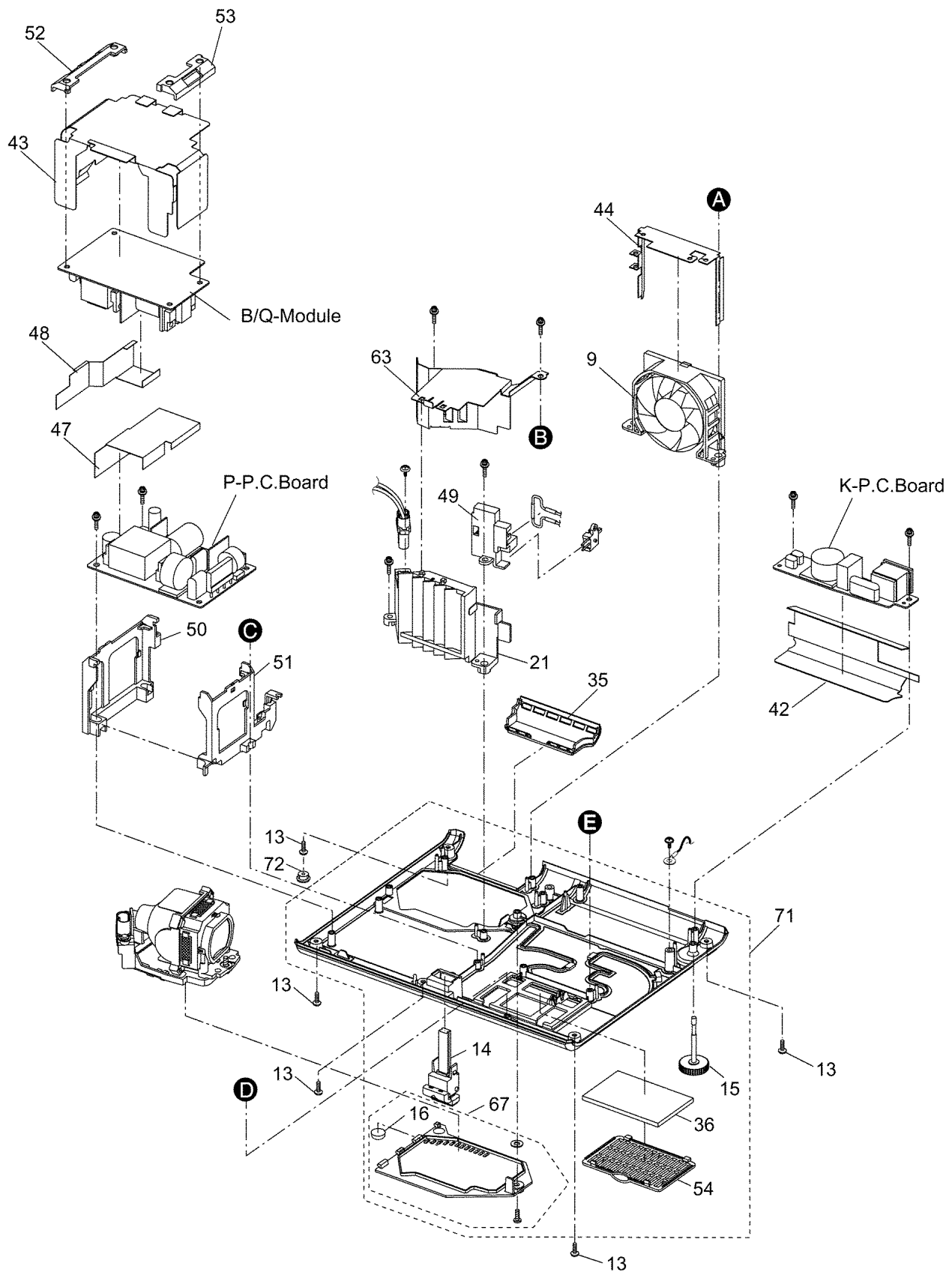
9

13 Terminal guide of ICs and transistors

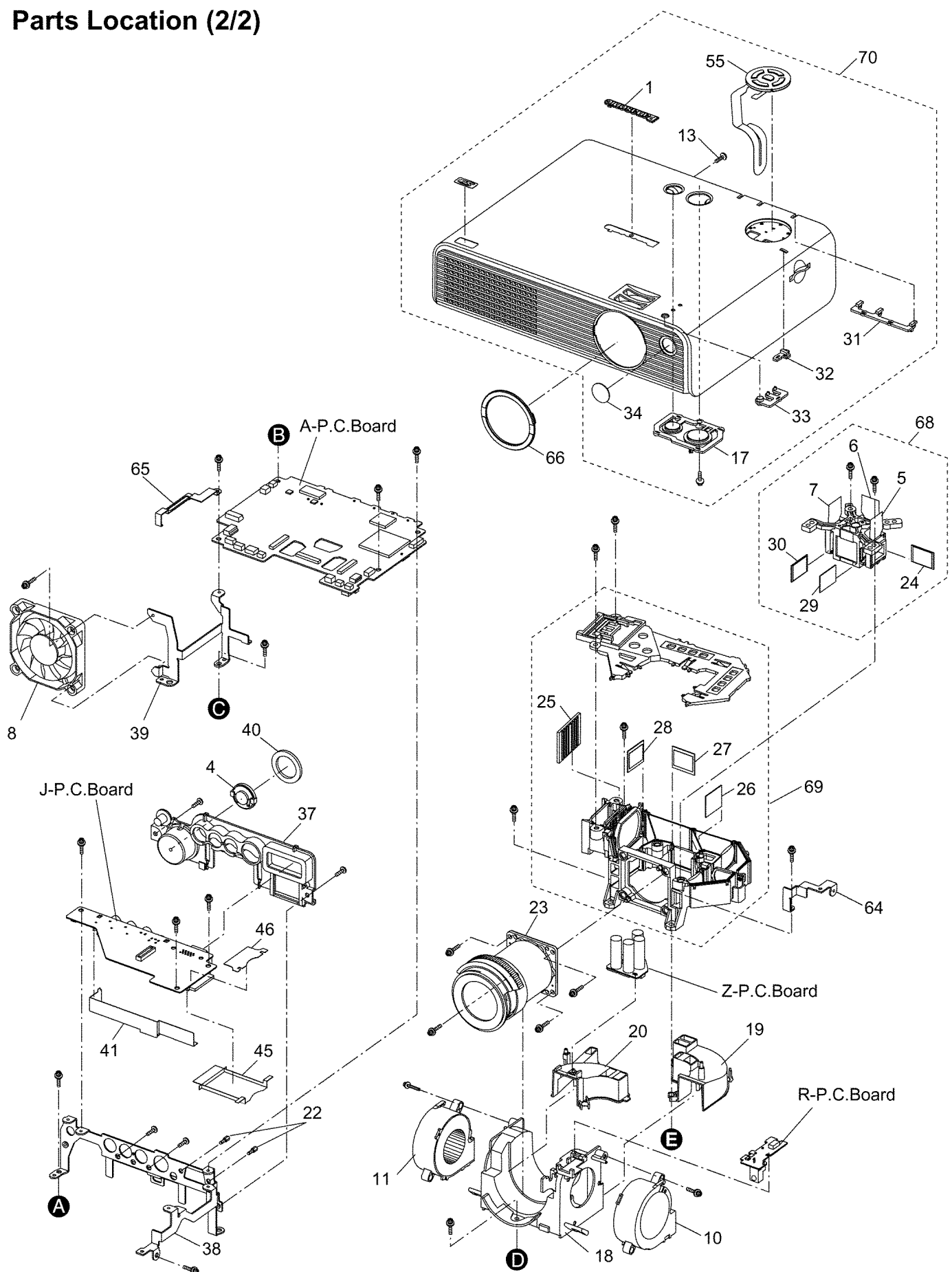


14 Exploded Views

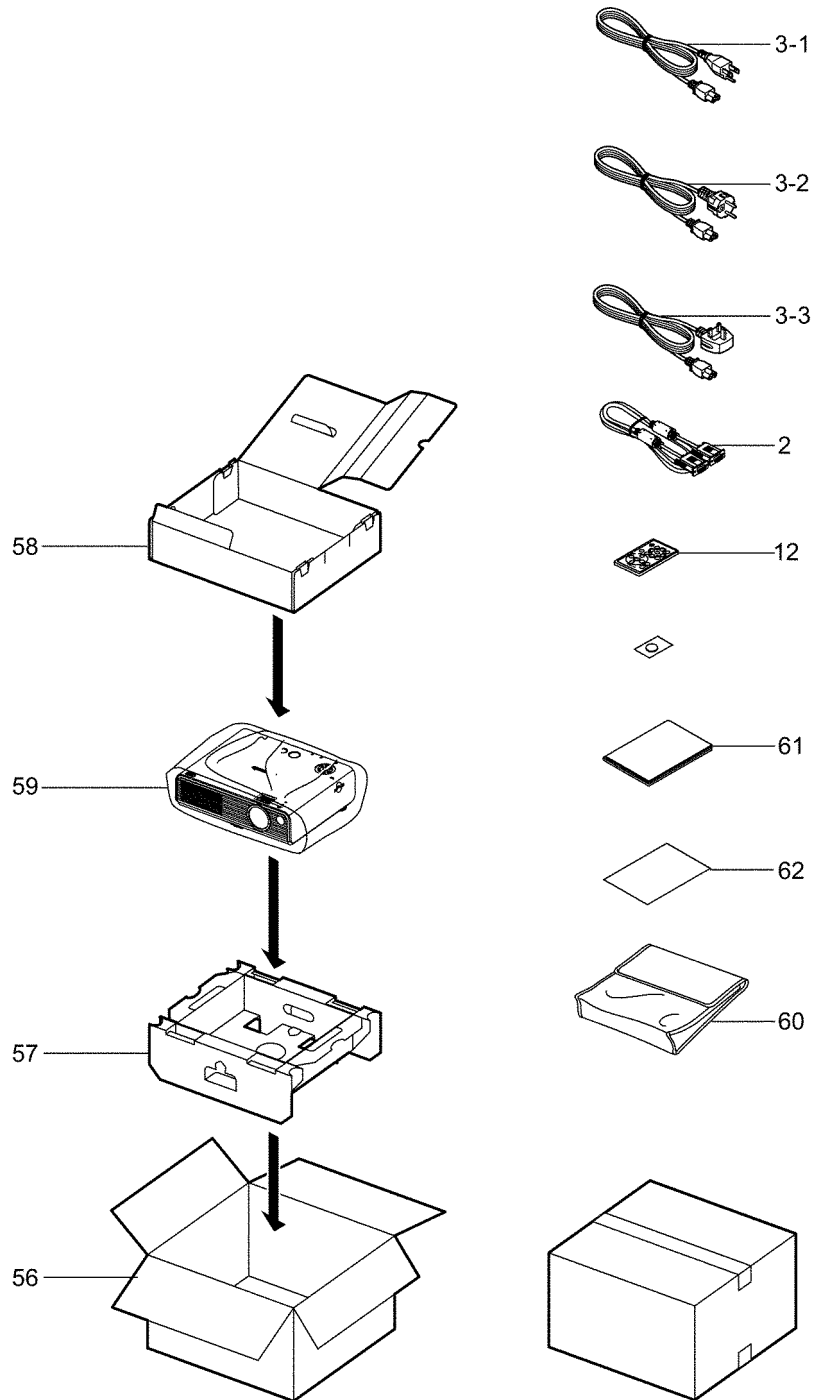
Parts Location (1/2)



Parts Location (2/2)



Packing Parts



15 Replacement Parts List

Important Safety Notice

Components identified by the International symbol \triangle have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : $\pm 0.25\text{ pF}$
E : Electrolytic	D : $\pm 0.5\text{ pF}$
P : Polyester	F : $\pm 1\text{ pF}$
PP : Polypropylene	J : $\pm 5\%$
S : Polystyrol	K : $\pm 10\%$
T : Tantalum	L : $\pm 15\%$
	M : $\pm 20\%$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

Notes:

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
	D4CDH5030003	TEMP SENSOR	\triangle
1	DFGB0089VB-0	PANASONIC BADGE	
2	K1HA15DA0002	VGA CABLE	
3-1	K2CG3DR00005	POWER CORD	\triangle PT-P1SDU
3-2	K2CM3DR00002	POWER CORD (EUROPE)	\triangle PT-P1SDE/EA
3-3	K2CT3DR00005	POWER CORD (UK)	\triangle PT-P1SDEA
	K4CF01000033	PIN	
4	L0AA02A00064	SPEAKER	
5	L5BDAXN00079	LIQUID CRYSTAL DISPLAY (R)	L3P06S-45G10 (RED MARK)
6	L5BDAXN00083	LIQUID CRYSTAL DISPLAY (G)	L3P06S-46G10 (GREEN MARK)
7	L5BDAXN00081	LIQUID CRYSTAL DISPLAY (B)	L3P06S-45G10 (BLUE MARK)
5	L5BDAXN00082	LIQUID CRYSTAL DISPLAY (R)	L3P06S-46G10 (RED MARK)
6	L5BDAXN00080	LIQUID CRYSTAL DISPLAY (G)	L3P06S-45G10 (GREEN MARK)
7	L5BDAXN00084	LIQUID CRYSTAL DISPLAY (B)	L3P06S-46G10 (BLUE MARK)
8	L6FAYYYH0002	POWER FAN	\triangle
9	L6FAYYYH0003	FAN	\triangle
10	L6FCYYYH0004	FAN 1	\triangle
11	L6FCYYYH0005	FAN 2	\triangle
12	N2QAYC000001	REMOTE CONTROLLER	
13	RHD26046	SCREW	
	RPF0046-1	BAG	
14	TBLB0052	ADJUST LEG (FRONT)	
15	TBLB3174	ADJUST LEG (REAR)	
16	TBLG3082	RUBBER LEG (REAR)	
	TBMG137	MODEL NAME PLATE	PT-P1SDU
	TBMG139	MODEL NAME PLATE	PT-P1SDE
	TBMG141	MODEL NAME PLATE	PT-P1SDEA
	TBMG138	MODEL NO. LABEL	PT-P1SDU
	TBMG140	MODEL NO. LABEL	PT-P1SDE
	TBMG142	MODEL NO. LABEL	PT-P1SDEA
17	TBXA48401	CONTROL BUTTON	
18	TEEC5216	DUCT 1	
19	TEEC5217	DUCT 2	

Ref. No.	Part No.	Part Name & Description	Remarks
20	TEEC5218	DUCT 3	
21	TEEC5225	SOCKET HOLDER	
	TEWA693	SHIELD GASKET	
72	TEFC5031	RUBBER CAP	
22	TEHC084N	SCREW (D-SUB)	
23	TKGF0099-1	LENS	
24	TKGP0031	POLARIZING PLATE/OUT (G)	
25	TKGP5287	PBS	
26	TKGP5288	POLARIZING PLATE/IN (R)	
27	TKGP5289	POLARIZING PLATE/IN (G)	
28	TKGP5290	POLARIZING PLATE/IN (B)	
29	TKGP5291	POLARIZING PLATE/OUT (R)	
30	TKGP5294	POLARIZING PLATE/OUT (B)	
31	TKKC5232	LED PLATE 1	
32	TKKC5233	LED PLATE 2	
33	TKKC5234	LED PLATE 3	
34	TKKC5235	REMOTE RECEIVER PLATE	
35	TKKH5100	VENTILATION COVER	
36	TKNE060	FILTER	
37	TKPB00301	TERMINAL COVER	
38	TKZF5044	TERMINAL PLATE	
39	TKZJ5063	FAN INSTALL METAL	
	TMKG671	SPACER	
40	TMKK242	SPEAKER GASKET	
	TMKX100	WASHER	
41	TMKX987	INSULATION SHEET (A-PCB)	
42	TMKX989	SHIELD SHEET (K-PCB)	
43	TMKX990	POWER SHIELD SHEET	
44	TMKX991	VENTILATION FAN COVER	
45	TMKX992	SD SHELTER SHEET	
46	TMKX993	SD SHELTER SHEET 2	
47	TMKY007	POWER GUIDE PLATE	
48	TMKY008	BALLAST GUIDE PLATE	
	TMME259	SPACER (PCB)	
	TMMX139	SPACER	
49	TMXC022	TEMP FUSE INSTALL METAL	
50	TMXE045	POWER HOLDER 1	
51	TMXE046	POWER HOLDER 2	
52	TMXE047	POWER HOLDER 3	
53	TMXE048	POWER HOLDER 4	
54	TMZX5057	FILTER INSTALL METAL	
55	TMMX001	SHEET	

Ref. No.	Part No.	Part Name & Description	Remarks
56	TPCB91102	CARTON	PT-P1SDU
	TPCB91103	CARTON	PT-P1SDE
	TPCB91104	CARTON	PT-P1SDEA
57	TPDF1574	CUSHION	
58	TPDF1575	ACCESSORY CARTON	
59	TPEH124-1	SET COVER	
60	TPEP017	CARRING CASE	
	TQB817002-1	SAFETY SHEET	PT-P1SDU
62	TQBH7030	SD SHEET	
61	TQBJ0184	INSTRUCTION BOOK	△ PT-P1SDU
	TQBJ0185	INSTRUCTION BOOK	△ PT-P1SDE
	TQBJ0189	INSTRUCTION BOOK	△ PT-P1SDEA
	TQD1712010	SHEET	
	TQDJ18004-1	GUARANTEE CARD (CANADA)	PT-P1SDU
	TQDJ18024-2	GUARANTEE CARD (USA)	PT-P1SDU
63	TUCA5013	INSULATION METAL	
64	TUCX5211	EARTH METAL 1	
65	TUCX5212	EARTH METAL 2	
66	TXFKK01VKB5	LENS COVER ASSY	
67	TXFKL01VKB5	LAMP COVER ASSY	
	TXJ/B1VKB5	LEAD WIRE (B1-P2)	△
	TXJ/B2VKB5	LEAD WIRE (B2-A4)	△
	TXJ/K1VKB5	LEAD WIRE (K1,2-P1)	△
	TXJ/L2VKB5	LEAD WIRE	△
	TXJ/P3VKB5	LEAD WIRE (P3-A6)	△
	TXJ/R1VKB5	LEAD WIRE (R1-A4)	△
	TXJ/Z1VKB5	LEAD WIRE (Z1-A10)	△
	XSB3+8FN	SCREW	
	XSN3+10FJ	SCREW	
	XTB2+4GFJ	SCREW	
	XTB3+12GFJ	SCREW	
	XTBT969FJK	SCREW	
	XTW3+8PFJ	SCREW	
	XYN2+F6FJ	SCREW	
	XYN26+F6FJ	SCREW	
	XYN26+J10FJ	SCREW	
	XYN3+J8FJ	SCREW	
	XYN4+E8FJ	SCREW	
70	TXFKF99QBEZ	UPPER COVER	
71	TXFKF98QBEZ	BOTTOM COVER	PT-P1SDU
	TXFKF99QBFZ	BOTTOM COVER	PT-P1SDE
	TXFKF99QBSZ	BOTTOM COVER	PT-P1SDEA
69	TXFEC98VKB5	ANALYSIS BLOCK	
68	TXFEC99VKB5A	OPTICAL BLOCK (A)	
	TXFEC99VKB5B	OPTICAL BLOCK (B)	
[INTEGRATED CIRCUIT]			
IC101	C0DBEYY00002	I.C	
IC201	C0DBEYY00005	I.C	
IC1001	C0CBADC00075	I.C	
IC1005	C1AB00002041	I.C	
IC1006	C1AB00002298	I.C	
IC1008	C3ABPJ000071	I.C	
IC1009	C0ZBZ0001297	I.C	PT-P1SDU/E
	C0ZBZ0001298	I.C	PT-P1SDEA
IC1010	C2DBYH000024	I.C	
IC1011	TVRN779	I.C	
IC1015	C0EBY0000022	I.C	
IC1016	C3EBJC000055	I.C	
IC1017	C1GB00000102	I.C	
IC1018	C0CBCAD00015	I.C	
IC1019	C0FBBD000213	I.C	
IC1022	C0JBAAE000354	I.C	
IC1023	C0DBEKG00004	I.C	
IC1024	C0DBEKG00004	I.C	
IC1025	C0DBEKG00004	I.C	
IC1026	C0DBEZE00006	I.C	
IC1027	C0CBCAD00039	I.C	
IC1028	C0CBCAD00039	I.C	
IC1030	C0DBZGF00002	I.C	
IC1031	C0CBCAD00015	I.C	
IC1032	C0DBEKG00004	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1033	C1AB00002033	I.C	
IC1034	C1AB00002033	I.C	
IC1035	C1AB00002033	I.C	
IC1036	C0DBEMC00020	I.C	
IC1037	C0JBAZ002431	I.C	
IC1040	C0ZBZ0001247	I.C	
IC1200	C1AB00001945	I.C	
IC1801	C3ABQJ000032	I.C	
IC1802	TVRN780	I.C	
IC1803	C2GBC0000205	I.C	
IC1804	C0DBEFG00003	I.C	
IC1805	C0FBBK000051	I.C	
IC1806	C0JBAZ002347	I.C	
IC1807	C0JBAF000540	I.C	
IC1808	C0JBAA000359	I.C	
IC1809	C0JBAZ002163	I.C	
IC1811	C0JBAA000359	I.C	
IC2501	C3EBCC000081	I.C	
IC2502	C0JBAA000340	I.C	
IC2503	C0JBAR000370	I.C	
IC2504	C1BB00000840	I.C	
IC2506	C0CBCDD00004	I.C	
IC9602	C0ZBZ0000943	I.C	
IC9603	C0ZBZ0000943	I.C	
[TRANSISTORS]			
Q101	B1ADRC000007	TRANSISTOR	
Q102	2SD1819ARTX	TRANSISTOR	
Q103	EUMP00P12	TRANSISTOR	△
Q104	2SD1819ARTX	TRANSISTOR	
Q105	2SB1218ARL	TRANSISTOR	
Q106	B1CENU000001	TRANSISTOR	
Q107	B1ABNF000006	TRANSISTOR	
Q201	2SD1819ARTX	TRANSISTOR	
Q202	UNR511100L	TRANSISTOR	
Q203	B1CERD000002	TRANSISTOR	
Q204	B1CERD000002	TRANSISTOR	
Q1003	B1GBCFLM0003	TRANSISTOR	
Q1004	B1CHQD000001	TRANSISTOR	
Q1006	B1DFED000017	TRANSISTOR	
Q1007	B1GBCFLM0003	TRANSISTOR	
Q1008	B1GBCFLM0039	TRANSISTOR	
Q1009	B1CHQD000001	TRANSISTOR	
Q1015	B1ABDF000018	TRANSISTOR	
Q1016	B1ABDF000018	TRANSISTOR	
Q1019	B1GFCFJJ0009	TRANSISTOR	
Q1020	B1GFCFJJ0009	TRANSISTOR	
Q1021	B1GFCFJJ0009	TRANSISTOR	
Q2501	B1ABDF000018	TRANSISTOR	
Q2503	B1ABDF000018	TRANSISTOR	
Q2504	B1ABDF000018	TRANSISTOR	
Q2506	B1ABDF000018	TRANSISTOR	
Q2508	B1GBCFJJ0007	TRANSISTOR	
Q2509	B1ABDF000018	TRANSISTOR	
Q2510	B1ABDF000018	TRANSISTOR	
Q2511	B1ABDF000018	TRANSISTOR	
Q3001	B1GFCFJJ0009	TRANSISTOR	
Q9603	B1DEGQ000037	TRANSISTOR	
Q9604	2SB0710AWL	TRANSISTOR	
Q9605	2SB0710AWL	TRANSISTOR	
Q9606	B1DEGM000024	TRANSISTOR	
Q9607	B1DEGM000024	TRANSISTOR	
Q9608	2SB0710AWL	TRANSISTOR	
Q9609	2SB0710AWL	TRANSISTOR	
Q9610	B1DEGM000024	TRANSISTOR	
Q9611	B1DEGM000024	TRANSISTOR	
[DIODES]			
D102	B0EAKR000125	DIODE	
D104	B0JCMD000024	DIODE	
D105	B0JCMD000024	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D106	B0HARR000032	DIODE	
D107	MA2J11100L	DIODE	
D108	MA2J11100L	DIODE	
D110	B0HCMM000014	DIODE	
D111	B0HCGV000002	DIODE	
D112	B0HCKP000004	DIODE	
D113	B0HCKP000004	DIODE	
D114	B0ECMR000006	DIODE	△
D115	B0ECMR000006	DIODE	△
D116	B0ECMR000006	DIODE	△
D117	B0ECMR000006	DIODE	△
D201	B0ECKM000009	DIODE	
D202	B0HCMM000014	DIODE	
D203	B0JAML000005	DIODE	
D204	B0JCPG000017	DIODE	
D1001	MA721TX	DIODE	
D1002	MA721TX	DIODE	
D1005	MA2S11100L	DIODE	
D1006	B0JCPD000026	DIODE	
D1007	B0JCPD000026	DIODE	
D1008	MA2S11100L	DIODE	
D1010	MA2S11100L	DIODE	
D1011	MA2S11100L	DIODE	
D1014	B3ABB0000035	DIODE	
D1015	B3ABB0000035	DIODE	
D1016	B3ABB0000035	DIODE	
D1017	MA2S11100L	DIODE	
D1018	MA2S11100L	DIODE	
D1019	B3AGB0000044	DIODE	
D1020	B3AGB0000044	DIODE	
D1021	B3ABB0000035	DIODE	
D2502	MA8056M	DIODE	
D2504	MA8056M	DIODE	
D2505	MA8056M	DIODE	
D2508	MA8056M	DIODE	
D2509	MA8056M	DIODE	
D3001	MA157A	DIODE	
D3002	B3AAB0000038	DIODE (TEMP LED)	
D3003	B3AAB0000038	DIODE (LAMP LED)	
D3501	B0BC7R9A0095	DIODE	
D3502	B0HCMM000013	DIODE	
D9101	ERZV10D471	VARISTOR	△
D9601	B0HARR000031	DIODE	
D9604	MA158TX	DIODE	
D9605	MA2Z72000L	DIODE	
D9606	MA158TX	DIODE	
D9607	MA2Z72000L	DIODE	
D9608	MA158TX	DIODE	
D9609	MA2Z72000L	DIODE	
D9611	MA158TX	DIODE	
D9612	MA2Z72000L	DIODE	
D9613	B0EAJV000002	DIODE	
D9614	B0EAJV000002	DIODE	
D9616	B0ECHP000003	DIODE	
D9617	MA2Z72000L	DIODE	
D9618	MA2Z72000L	DIODE	
D9619	MA2Z72000L	DIODE	
D9620	MA2Z72000L	DIODE	
D9621	MA2Z72000L	DIODE	
D9622	B0ECHP000003	DIODE	
D9623	B0ECHP000003	DIODE	
D9624	MA2Z72000L	DIODE	
D9625	MA2Z72000L	DIODE	
D9626	MA2Z72000L	DIODE	
D9627	MA2Z72000L	DIODE	
D9628	MA2Z72000L	DIODE	
D9629	B0ECHP000003	DIODE	
[COILS]			
L101	G0B542H00001	COIL	△
L103	G0C381Z00001	COIL	
L201	G0C1R5MA0047	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L1001	J0JHC0000107	CORE	
L1002	J0JHC0000107	CORE	
L1003	J0JHC0000107	CORE	
L1004	J0JHC0000107	CORE	
L1005	J0JHC0000107	CORE	
L1006	J0JHC0000107	CORE	
L1007	J0JHC0000107	CORE	
L1008	J0JHC0000107	CORE	
L1009	J0JHC0000107	CORE	
L1010	TAL115K470T	COIL	
L1011	J0JHC0000107	CORE	
L1012	VLP0319A121T	CORE	
L1013	GLC6R8MA0061	COIL	
L1014	TAL115K470T	COIL	
L1015	J0JHC0000107	CORE	
L1016	J0JHC0000107	CORE	
L1017	J0JHC0000107	CORE	
L1018	J0JHC0000107	CORE	
L1019	J0JHC0000107	CORE	
L1020	J0JHC0000107	CORE	
L1021	J0JHC0000107	CORE	
L1022	J0JHC0000107	CORE	
L1023	J0JHC0000107	CORE	
L1026	VLP0319A121T	CORE	
L1027	VLP0319A121T	CORE	
L1028	VLP0319A121T	CORE	
L1029	VLP0319A121T	CORE	
L1030	VLP0319A121T	CORE	
L1031	VLP0319A121T	CORE	
L1032	VLP0319A121T	CORE	
L1033	VLP0319A121T	CORE	
L1034	J0JHC0000107	CORE	
L1036	J0JHC0000107	CORE	
L1037	VLP0319A121T	CORE	
L1043	J0JHC0000107	CORE	
L1045	J0JHC0000107	CORE	
L1046	J0JHC0000107	CORE	
L1047	J0JHC0000107	CORE	
L1048	J0JHC0000107	CORE	
L1801	J0JHC0000107	CORE	
L1802	J0JHC0000107	CORE	
L1803	J0JHC0000107	CORE	
L1804	J0JHC0000107	CORE	
L1805	J0JHC0000107	CORE	
L1806	J0JHC0000107	CORE	
L1807	J0JHC0000107	CORE	
L1808	J0JHC0000107	CORE	
L2501	J0JHC0000107	CORE	
L2502	VLP0319A121T	CORE	
L2503	VLP0319A121T	CORE	
L2504	J0JHC0000107	CORE	
L2505	VLP0319A121T	CORE	
L2506	VLP0319A121T	CORE	
L2507	VLP0319A121T	CORE	
L2508	J0JHC0000107	CORE	
L2509	J0JHC0000107	CORE	
L2510	J0JHC0000107	CORE	
L2512	J0JHC0000107	CORE	
LF9101	G0B103H00006	FILTER	△
FL2501	J0HABB000014	FILTER	
[RESISTORS]			
R101	ERJ6ENF5102	M 51KOHM, 1/10W	
R102	ERJ6ENF5102	M 51KOHM, 1/10W	
R103	ERJ6ENF5102	M 51KOHM, 1/10W	
R104	ERJ6ENF5102	M 51KOHM, 1/10W	
R105	ERJ6ENF2402	M 24KOHM, 1/10W	
R106	ERJ14YJ104	RESISTOR	
R107	ERJ6GEYJ154	M 150KOHM, J, 1/10W	
R108	ERJ6GEYJ150	M 15 OHM, J, 1/10W	
R109	ERJ6ENF1502	M 15KOHM, 1/10W	
R110	ERJ6GEYJ101	M 100 OHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R111	ERJ14YJ4R7	RESISTOR	
R112	ERJ6ENF6802	M 68KOHM, 1/10W	
R113	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R114	D0GRR10JA014	RESISTOR	
R115	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R116	D0GR470KA002	RESISTOR	
R117	ERJ3GEYJ304	RESISTOR	
R118	ERJ6ENF9092	RESISTOR	
R119	ERJ6GEYJ154	M 150KOHM,J,1/10W	
R120	ERJ6GEYJ154	M 150KOHM,J,1/10W	
R121	ERX12SJ1R0	RESISTOR	
R122	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R123	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R124	ERJ6GEYJ154	M 150KOHM,J,1/10W	
R125	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R128	ERJ3EKF3402	RESISTOR	
R129	ERJ3EKF1583	RESISTOR	
R131	ERJ14YJ270	RESISTOR	
R132	ERJ3GEYJ271	M 270 OHM,J,1/16W	
R133	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R134	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R135	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R136	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R137	ERJ12RQJR22	RESISTOR	
R138	ERJ12YJ224	RESISTOR	
R140	ERJ14YJ2R2	RESISTOR	
R141	ERJ14YJ101	RESISTOR	
R142	ERJ14YJ152	RESISTOR	
R143	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R144	ERJ3GEYJ474	METAL OXIDE RESISTOR	
R145	ERJ3GEYJ474	METAL OXIDE RESISTOR	
R146	ERJ3GEYJ474	METAL OXIDE RESISTOR	
R201	ERJ12YJ220	M 22 OHM, J,1/2W	
R202	ERJ14YJ220	RESISTOR	
R203	ERJ14YJ220	RESISTOR	
R204	ERJ14YJ220	RESISTOR	
R205	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R206	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R207	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R208	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R209	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R210	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R211	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R212	ERJ3EKF2210	RESISTOR	
R213	ERJ3EKF5490	RESISTOR	
R214	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R215	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R216	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R217	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R218	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R219	ERJ3GEYJ683	M 68K OHM,J,1/16W	
R220	ERJ3GEYJ474	METAL OXIDE RESISTOR	
R221	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1001	ERJ2GEJ392	M 3.9KOHM, 0.063W	
R1002	ERJ2GEJ102	M 1K OHM, 0.063W	
R1003	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1004	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1005	ERJ2GEJ162	RESISTOR	
R1006	ERJ2GEJ332	M 3.3KOHM, 0.063W	
R1007	ERJ2GEJ103	M 10K OHM, 0.063W	
R1008	ERJ3GEJ471	RESISTOR	
R1025	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1027	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1030	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1038	ERJ1TYJ221	M 220 OHM, 1W	
R1039	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1040	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1041	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1042	ERJ2GEJ101	M 100 OHM, 0.063W	
R1044	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1045	ERJ2GEJ101	M 100 OHM, 0.063W	
R1048	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1064	ERJ2GEJ560	M 56 OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1066	ERJ3EKF2001	M 2K OHM, 0.063W	
R1067	ERJ3EKF3001	RESISTOR	
R1068	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1069	ERJ3EKF1201	RESISTOR	
R1070	ERJ3GEYJ180	METAL OXIDE RESISTOR	
R1074	ERJ3GEYJ180	METAL OXIDE RESISTOR	
R1075	ERJ3GEYJ180	METAL OXIDE RESISTOR	
R1076	ERJ3EKF1371	M 1.37KOHM,0.063W	
R1077	ERJ3EKF1002	M 10KOHM, 1/16W	
R1078	ERJ2GEJ560	M 56 OHM, 0.063W	
R1079	EXB28V220J	RESISTOR ARRAY	
R1080	ERJ3EKF1003	RESISTOR	
R1081	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1082	ERJ3EKF3602	RESISTOR	
R1083	ERJ3EKF1691	M1.69KOHM, 1/16W	
R1084	ERJ2GEOR00	M 0 OHM, 0.063W	
R1087	ERJ2GEJ560	M 56 OHM, 0.063W	
R1089	ERJ2GEJ560	M 56 OHM, 0.063W	
R1094	EXB28V560J	RESISTOR ARRAY	
R1095	D1HG5608A002	RESISTOR	
R1096	ERJ2GEJ560	M 56 OHM, 0.063W	
R1097	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1098	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1099	ERJ3EKF1003	RESISTOR	
R1100	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1101	ERJ3EKF1002	M 10KOHM, 1/16W	
R1102	ERJ1TYJ221	M 220 OHM, 1W	
R1103	ERJ3EKF3902	RESISTOR	
R1104	ERJ2GEJ560	M 56 OHM, 0.063W	
R1105	ERJ1TYJ221	M 220 OHM, 1W	
R1106	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1107	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1108	D1HG5608A002	RESISTOR	
R1109	EXB28V560J	RESISTOR ARRAY	
R1110	ERJ2GEJ220	M 22 OHM, 0.063W	
R1111	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1112	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1114	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1115	EXB28V560J	RESISTOR ARRAY	
R1116	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1119	ERJ2GEJ203	RESISTOR	
R1120	ERJ2GEJ750	M 75 OHM, 0.063W	
R1122	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1123	ERJ2GEOR00	M 0 OHM, 0.063W	
R1124	ERJ6ENF8201	M 8.2KOHM, 1/10W	
R1126	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1127	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1128	ERJ2GEJ103	M 10K OHM, 0.063W	
R1129	ERJ3EKF1473	M 147KOHM, 0.063W	
R1130	ERJ3EKF1002	M 10KOHM, 1/16W	
R1132	ERJ2GEJ103	M 10K OHM, 0.063W	
R1133	ERJ3EKF3301	M 3.3KOHM, 0.063W	
R1134	ERJ3EKF6801	M 6.8KOHM, 1/16W	
R1135	ERJ3EKF3301	M 3.3KOHM, 0.063W	
R1136	ERJ3EKF6801	M 6.8KOHM, 1/16W	
R1137	ERJ3EKF3301	M 3.3KOHM, 0.063W	
R1138	ERJ3EKF6801	M 6.8KOHM, 1/16W	
R1139	ERJ3EKF1003	RESISTOR	
R1140	ERJ3EKF1002	M 10KOHM, 1/16W	
R1141	ERJ3EKF3902	RESISTOR	
R1145	ERJ2GEJ220	M 22 OHM, 0.063W	
R1146	ERJ2GEJ220	M 22 OHM, 0.063W	
R1147	ERJ2GEJ220	M 22 OHM, 0.063W	
R1148	D1HG1038A002	RESISTOR	
R1149	ERJ2GEJ105	M 1M OHM, 0.063W	
R1150	EXB28V103J	RESISTOR ARRAY	
R1151	ERJ2GEJ220	M 22 OHM, 0.063W	
R1152	ERJ2GEJ220	M 22 OHM, 0.063W	
R1153	ERJ2GEJ103	M 10K OHM, 0.063W	
R1154	ERJ2GEJ101	M 100 OHM, 0.063W	
R1155	ERJ2GEJ103	M 10K OHM, 0.063W	
R1156	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1157	ERJ3GEYJ100	M 10 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1158	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1161	ERJ3EKF2202	RESISTOR	
R1162	ERJ2GEJ102	M 1K OHM, 0.063W	
R1167	D1HG2208A002	RESISTOR	
R1168	EXB28V220J	RESISTOR ARRAY	
R1169	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1170	ERJ2GEJ331	M 330 OHM, 0.063W	
R1171	ERJ2GEJ220	M 22 OHM, 0.063W	
R1172	ERJ2GEJ331	M 330 OHM, 0.063W	
R1173	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	
R1174	ERJ3EKF1002	M 10KOHM, 1/16W	
R1175	ERJ3EKF1002	M 10KOHM, 1/16W	
R1176	ERJ2GEJ473	M 47K OHM, 0.063W	
R1177	ERJ2GEJ473	M 47K OHM, 0.063W	
R1178	ERJ2GEJ473	M 47K OHM, 0.063W	
R1181	ERJ2GEJ104	M 100KOHM, 0.063W	
R1182	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1183	ERJ2GE0R00	M 0 OHM, 0.063W	
R1184	ERJ2GE0R00	M 0 OHM, 0.063W	
R1185	ERJ2GEJ560	M 56 OHM, 0.063W	
R1187	ERJ2GEJ220	M 22 OHM, 0.063W	
R1188	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1189	ERJ2GEJ681	M 680 OHM, 0.063W	
R1199	D1HG2208A002	RESISTOR	
R1200	D1HG2208A002	RESISTOR	
R1201	D1HG2208A002	RESISTOR	
R1202	D1HG2208A002	RESISTOR	
R1203	D1HG2208A002	RESISTOR	
R1204	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1205	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1207	ERJ2GEJ331	M 330 OHM, 0.063W	
R1208	ERJ2GEJ331	M 330 OHM, 0.063W	
R1209	ERJ2GEJ331	M 330 OHM, 0.063W	
R1212	ERJ2GEJ220	M 22 OHM, 0.063W	
R1213	ERJ2GEJ220	M 22 OHM, 0.063W	
R1214	ERJ2GEJ220	M 22 OHM, 0.063W	
R1215	ERJ2GEJ220	M 22 OHM, 0.063W	
R1216	ERJ2GEJ221	M 220 OHM, 0.063W	
R1217	ERJ2GEJ221	M 220 OHM, 0.063W	
R1218	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1219	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1220	ERJ2GEJ221	M 220 OHM, 0.063W	
R1221	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1222	ERJ2GEJ101	M 100 OHM, 0.063W	
R1223	D1HG1038A002	RESISTOR	
R1226	D1HG2208A002	RESISTOR	
R1227	EXB28V220J	RESISTOR ARRAY	
R1229	D1HG2208A002	RESISTOR	
R1230	ERJ2GEJ220	M 22 OHM, 0.063W	
R1231	ERJ2GEJ103	M 10K OHM, 0.063W	
R1232	ERJ2GEJ331	M 330 OHM, 0.063W	
R1233	ERJ2GEJ220	M 22 OHM, 0.063W	
R1234	ERJ2GEJ220	M 22 OHM, 0.063W	
R1235	ERJ2GEJ220	M 22 OHM, 0.063W	
R1236	ERJ2GEJ102	M 1K OHM, 0.063W	
R1237	ERJ2GEJ220	M 22 OHM, 0.063W	
R1238	D1HG2208A002	RESISTOR	
R1239	D1HG2208A002	RESISTOR	
R1240	ERJ2GEJ220	M 22 OHM, 0.063W	
R1241	ERJ3GEYJ680	M 68 OHM, J, 1/16W	
R1242	ERJ2GEJ681	M 680 OHM, 0.063W	
R1245	D1HG5608A002	RESISTOR	
R1246	D1HG5608A002	RESISTOR	
R1247	D1HG5608A002	RESISTOR	
R1248	D1HG5608A002	RESISTOR	
R1253	ERJ2GEJ220	M 22 OHM, 0.063W	
R1255	EXB28V103J	RESISTOR ARRAY	
R1257	ERJ2GEJ220	M 22 OHM, 0.063W	
R1258	ERJ3GEYJ681	M 680 OHM, J, 1/16W	
R1259	ERJ3GEYJ681	M 680 OHM, J, 1/16W	
R1264	ERJ2GEJ102	M 1K OHM, 0.063W	
R1265	ERJ3EKF2202	RESISTOR	
R1266	ERJ2GEJ220	M 22 OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1267	ERJ2GEJ102	M 1K OHM, 0.063W	
R1268	ERJ2GEJ102	M 1K OHM, 0.063W	
R1271	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R1272	ERJ1TYJ221	M 220 OHM, 1W	
R1283	ERJ2GEJ103	M 10K OHM, 0.063W	
R1284	ERJ2GEJ103	M 10K OHM, 0.063W	
R1286	ERJ2GEJ220	M 22 OHM, 0.063W	
R1287	ERJ2GEJ151	M 150 OHM, 0.063W	
R1288	ERJ2GEJ151	M 150 OHM, 0.063W	
R1289	ERJ2GEJ151	M 150 OHM, 0.063W	
R1290	ERJ2GEJ151	M 150 OHM, 0.063W	
R1291	ERJ2GEJ101	M 100 OHM, 0.063W	
R1292	ERJ2GEJ151	M 150 OHM, 0.063W	
R1293	ERJ2GEJ331	M 330 OHM, 0.063W	
R1294	ERJ2GEJ151	M 150 OHM, 0.063W	
R1295	ERJ2GEJ331	M 330 OHM, 0.063W	
R1296	ERJ2GEJ103	M 10K OHM, 0.063W	PT-P1SDU/E
R1297	ERJ2GEJ103	RESISTOR	PT-P1SDEA
R1300	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1301	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1302	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1303	ERJ2GEJ102	M 1K OHM, 0.063W	
R1801	ERJ2GEJ100	M 10 OHM, 0.063W	
R1802	ERJ2GEJ100	M 10 OHM, 0.063W	
R1803	ERJ2GEJ100	M 10 OHM, 0.063W	
R1804	ERJ2GEJ100	M 10 OHM, 0.063W	
R1805	ERJ2GEJ100	M 10 OHM, 0.063W	
R1806	ERJ2GEJ100	M 10 OHM, 0.063W	
R1808	ERJ2GEJ100	M 10 OHM, 0.063W	
R1809	ERJ2GEJ560	M 56 OHM, 0.063W	
R1812	ERJ2GEJ103	M 10K OHM, 0.063W	
R1813	ERJ2GEJ103	M 10K OHM, 0.063W	
R1814	ERJ2GEJ103	M 10K OHM, 0.063W	
R1815	ERJ2GEJ103	M 10K OHM, 0.063W	
R1816	ERJ2GEJ103	M 10K OHM, 0.063W	
R1818	ERJ2GEJ103	M 10K OHM, 0.063W	
R1819	ERJ2GEJ103	M 10K OHM, 0.063W	
R1820	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R1824	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1826	ERJ3GEYJ680	M 68 OHM, J, 1/16W	
R1827	ERJ2GE0R00	M 0 OHM, 0.063W	
R1832	ERJ2GEJ103	M 10K OHM, 0.063W	
R1833	ERJ2GEJ103	M 10K OHM, 0.063W	
R1834	EXB28V103J	RESISTOR ARRAY	
R1835	ERJ2GEJ680	RESISTOR	
R1839	ERJ2GEJ103	M 10K OHM, 0.063W	
R1840	ERJ2GEJ103	M 10K OHM, 0.063W	
R1843	ERJ2GE0R00	M 0 OHM, 0.063W	
R1844	ERJ2GE0R00	M 0 OHM, 0.063W	
R1845	ERJ2GEJ103	M 10K OHM, 0.063W	
R1847	ERJ2GEJ103	M 10K OHM, 0.063W	
R1848	ERJ2GEJ103	M 10K OHM, 0.063W	
R1849	ERJ2GE0R00	M 0 OHM, 0.063W	
R1850	ERJ2GEJ103	M 10K OHM, 0.063W	
R1852	ERJ2GEJ103	M 10K OHM, 0.063W	
R1855	ERJ2GEJ103	M 10K OHM, 0.063W	
R1856	ERJ2GEJ103	M 10K OHM, 0.063W	
R1861	ERJ2GEJ103	M 10K OHM, 0.063W	
R1862	ERJ2GE0R00	M 0 OHM, 0.063W	
R1866	ERJ2GE0R00	M 0 OHM, 0.063W	
R1867	ERJ2GE0R00	M 0 OHM, 0.063W	
R1868	ERJ2GE0R00	M 0 OHM, 0.063W	
R1869	ERJ2GE0R00	M 0 OHM, 0.063W	
R1871	EXB28V100J	RESISTOR	
R1872	EXB28V100J	RESISTOR	
R1873	EXB28V100J	RESISTOR	
R1874	EXB28V100J	RESISTOR	
R1875	EXB28V100J	RESISTOR	
R1876	EXB28V100J	RESISTOR	
R1877	EXB28V100J	RESISTOR	
R1878	EXB28V100J	RESISTOR	
R1880	EXB28V220J	RESISTOR ARRAY	
R1881	EXB28V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1882	EXB28V220J	RESISTOR ARRAY	
R1883	ERJ2GEJ220	M 22 OHM, 0.063W	
R1884	ERJ2GEJ220	M 22 OHM, 0.063W	
R1885	EXB28V100J	RESISTOR	
R1886	EXB28V220J	RESISTOR ARRAY	
R1887	EXB28V220J	RESISTOR ARRAY	
R1888	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1890	ERJ6ENF4020	M 402 OHM, 1/10W	
R1891	ERJ6ENF1001	M 1KOHM, 1/10W	
R1892	ERJ2GEJ103	M 10K OHM, 0.063W	
R1893	EXB28V104J	RESISTOR ARRAY	
R1894	ERJ2GE0R00	M 0 OHM, 0.063W	
R1895	ERJ2GEJ103	M 10K OHM, 0.063W	
R1896	EXB28V103J	RESISTOR ARRAY	
R1897	ERJ2GEJ103	M 10K OHM, 0.063W	
R1898	EXB28V472J	RESISTOR ARRAY	
R1900	ERJ2GE0R00	M 0 OHM, 0.063W	
R1901	EXB28V220J	RESISTOR ARRAY	
R1902	EXB28V220J	RESISTOR ARRAY	
R1903	EXB28V220J	RESISTOR ARRAY	
R1904	EXB28V103J	RESISTOR ARRAY	
R1905	EXB28V220J	RESISTOR ARRAY	
R1906	EXB28V560J	RESISTOR ARRAY	
R1907	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1908	EXB28V560J	RESISTOR ARRAY	
R1909	EXB28V560J	RESISTOR ARRAY	
R1910	EXB28V560J	RESISTOR ARRAY	
R1911	EXB28V560J	RESISTOR ARRAY	
R1912	EXB28V560J	RESISTOR ARRAY	
R1913	EXB28V560J	RESISTOR ARRAY	
R1914	EXB28V220J	RESISTOR ARRAY	
R1916	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1917	EXB28V220J	RESISTOR ARRAY	
R1918	EXB28V103J	RESISTOR ARRAY	
R1919	ERJ3GEYJ473	M 47K OHM, J, 1/16W	
R1920	ERJ3GEYJ473	M 47K OHM, J, 1/16W	
R1921	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1922	ERJ3GEYJ220	M 22 OHM, J, 1/16W	
R1923	ERJ3GEYJ680	M 68 OHM, J, 1/16W	
R1925	ERJ2GEJ220	M 22 OHM, 0.063W	
R1926	ERJ2GEJ220	M 22 OHM, 0.063W	
R1927	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1928	ERJ2GEJ100	M 10 OHM, 0.063W	
R1929	ERJ2GEJ103	M 10K OHM, 0.063W	
R1931	ERJ2GEJ330	M 33 OHM, 0.063W	
R1937	ERJ2GEJ100	M 10 OHM, 0.063W	
R1938	ERJ2GEJ102	M 1K OHM, 0.063W	
R2501	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2502	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2503	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2504	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2505	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2506	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2507	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2508	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2510	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2514	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2515	ERJ3GEYJ223	M 22K OHM, J, 1/16W	
R2516	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R2517	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R2518	ERJ3GEYJ101	M 100 OHM, J, 1/16W	
R2519	ERJ3GEYJ101	M 100 OHM, J, 1/16W	
R2520	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2521	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2522	ERJ6ENF75R0	M 75 OHM, 1/10W	
R2523	ERJ6ENF75R0	M 75 OHM, 1/10W	
R2524	ERJ6ENF75R0	M 75 OHM, 1/10W	
R2525	ERJ6ENF75R0	M 75 OHM, 1/10W	
R2527	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2528	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R2529	ERJ3GEYJ473	M 47K OHM, J, 1/16W	
R2530	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R2531	ERJ3GEYJ471	M 470 OHM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2538	ERJ6GEYJ750	M 75 OHM, J, 1/10W	
R2539	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2540	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R2541	ERJ6GEYJ750	M 75 OHM, J, 1/10W	
R2542	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R2543	ERJ3GEYJ471	M 470 OHM, J, 1/16W	
R2544	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2545	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2546	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R2547	ERJ3GEYJ223	M 22K OHM, J, 1/16W	
R2548	ERJ3GEYJ471	M 470 OHM, J, 1/16W	
R2550	ERJ3GEYJ102	M 1K OHM, J, 1/16W	
R2551	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R2553	ERJ3GEYJ822	M 8.2KOHM, J, 1/16W	
R2554	ERJ3GEYJ272	M 2.7KOHM, J, 1/16W	
R2557	ERJ2GEJ100	M 10 OHM, 0.063W	
R2558	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R2560	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	
R2561	ERJ3GEYJ222	M 2.2KOHM, J, 1/16W	
R2562	ERJ3GEYJ124	M 120KOHM, J, 1/16W	
R2563	ERJ3GEYJ154	M 150 OHM, J, 1/16W	
R2564	ERJ3GEYJ102	M 1K OHM, J, 1/16W	
R2565	ERJ3GEYJ563	M 56KOHM, J, 1/16W	
R2566	ERJ3GEYJ154	M 150 OHM, J, 1/16W	
R2567	ERJ3GEYJ333	M 33K OHM, J, 1/16W	
R2568	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2570	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2571	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2572	ERJ3GEYJ330	M 33 OHM, J, 1/16W	
R2573	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R2574	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2575	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2576	ERJ3GEYJ330	M 33 OHM, J, 1/16W	
R2577	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R2578	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R2579	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R2580	ERJ3GEYJ330	M 33 OHM, J, 1/16W	
R2581	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R3001	ERJ3GEYJ470	M 47 OHM, J, 1/16W	
R3002	ERJ3GEYJ102	M 1K OHM, J, 1/16W	
R3003	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R3004	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R3005	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R3006	EXB28V220J	RESISTOR ARRAY	
R3503	ERJ3EKF2701	M 2.7KOHM, 1/16W	
R3504	ERJ3EKF2701	M 2.7KOHM, 1/16W	
R3505	ERJ3EKF2701	M 2.7KOHM, 1/16W	
R3506	ERJ3GEY0R00	M 0 OHM, 1/16W	
R9101	ERDS1TJ474	C 4.7KOHM, J, 1/2W	△
R9601	ERX2SJR47E	M 0.47OHM, J, 2W	
R9653	ERJ1TRQFR22	RESISTOR	
R9654	ERJ1TRQFR22	RESISTOR	
R9655	ERJ1TRQFR22	RESISTOR	
R9656	ERJ1TRQFR22	RESISTOR	
[CAPACITORS]			
C102	ECUX1V105KBM	CAPACITOR	
C103	F0CZZ1050004	CAPACITOR	
C104	F0CZZ1050004	CAPACITOR	
C105	F2G1C101A176	CAPACITOR	
C107	F1H1C105A097	CAPACITOR	
C108	F1K2J221A030	CAPASITOR	
C109	F1BAH3320010	CAPASITOR	△
C110	F2A2W8200002	CAPACITOR	
C111	F1H1H104A748	CAPACITOR	
C113	F1H1C224A074	CAPACITOR	
C114	ECUX1V105KBM	CAPACITOR	
C115	ECUV1C224KBV	CAPACITOR	
C116	F1H1C105A097	CAPACITOR	
C117	ECJ1VB1H222K	CAPACITOR	
C118	ECJ1VB1H471K	CAPACITOR	
C119	ECUX1V105KBM	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C120	FlH1H104A748	CAPACITOR	
C121	FlK2J103A030	CAPACITOR	
C122	F2G1V220A118	CAPACITOR	
C125	FlH1C105A097	CAPACITOR	
C126	FOCZZ1050004	CAPACITOR	
C127	ECJ2FB1E225K	CAPACITOR	
C201	FlJ2E102A019	CAPACITOR	
C202	FlJ2E471A018	CAPACITOR	
C203	FlJ2E102A019	CAPACITOR	
C204	FlJ2E472A019	CAPACITOR	
C205	FlJ2E472A019	CAPACITOR	
C206	F2A1V221A749	CAPACITOR	
C207	F2A1V330A751	CAPACITOR	
C208	F2A1A102A778	CAPACITOR	
C210	F2A1C121A983	CAPACITOR	
C211	ECJ1VB0J225K	CAPACITOR	
C212	FlH1C105A097	CAPACITOR	
C214	FlH1H104A748	CAPACITOR	
C215	ECJ2FB1E225K	CAPACITOR	
C216	ECJ2FB1E225K	CAPACITOR	
C218	ECJ2FB1E225K	CAPACITOR	
C219	ECJ2FB1E225K	CAPACITOR	
C1001	ECJ2YF1C225Z	C 2.2UF, Z, 16V	
C1002	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1008	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1009	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1010	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1015	F2G1C4700014	CAPACITOR	
C1016	ECJ2FF1A106Z	C 10UF, 10V	
C1017	ECJ2FF1A106Z	C 10UF, 10V	
C1018	ECJ0EF1C104Z	C 0.1UF, 16V	
C1019	ECJ0EF1C104Z	C 0.1UF, 16V	
C1020	ECJ0EB1C103K	C 0.01UF, 16V	
C1021	ECJ2FF1A106Z	C 10UF, 10V	
C1022	ECJ2FF1A106Z	C 10UF, 10V	
C1023	ECJ0EF1C104Z	C 0.1UF, 16V	
C1024	ECJ0EF1C104Z	C 0.1UF, 16V	
C1025	ECJ2FF1A106Z	C 10UF, 10V	
C1026	ECJ0EF1C104Z	C 0.1UF, 16V	
C1027	ECJ0EB1C103K	C 0.01UF, 16V	
C1028	ECJ0EF1C104Z	C 0.1UF, 16V	
C1029	ECJ0EF1C104Z	C 0.1UF, 16V	
C1030	ECJ0EF1C104Z	C 0.1UF, 16V	
C1032	ECJ0EF1C104Z	C 0.1UF, 16V	
C1033	ECJ0EB1H102K	C 1000PF, 50V	
C1034	ECJ2FF1A106Z	C 10UF, 10V	
C1035	ECJ0EF1C104Z	C 0.1UF, 16V	
C1036	ECJ0EF1C104Z	C 0.1UF, 16V	
C1037	ECJ0EF1C104Z	C 0.1UF, 16V	
C1038	ECJ0EF1C104Z	C 0.1UF, 16V	
C1042	ECJ0EF1C104Z	C 0.1UF, 16V	
C1044	F2G1C4700014	CAPACITOR	
C1047	ECJ0EF1C104Z	C 0.1UF, 16V	
C1048	ECJ1VF1A225Z	CAPACITOR	
C1049	ECJ1VB1C823K	C 0.82UF, 16V	
C1050	ECJ0EB1C103K	C 0.01UF, 16V	
C1052	ECJ0EF1C104Z	C 0.1UF, 16V	
C1053	ECJ1VB1H102K	C 1000PF, K, 50V	
C1054	ECJ1VB1H102K	C 1000PF, K, 50V	
C1055	ECJ0EF1C104Z	C 0.1UF, 16V	
C1056	ECJ0EF1C104Z	C 0.1UF, 16V	
C1061	ECJ0EF1C104Z	C 0.1UF, 16V	
C1062	ECJ0EF1C104Z	C 0.1UF, 16V	
C1063	ECJ0EF1C104Z	C 0.1UF, 16V	
C1064	ECJ0EF1C104Z	C 0.1UF, 16V	
C1065	EEFCD0D101R	CAPACITOR	
C1066	ECJ1VB1H102K	C 1000PF, K, 50V	
C1067	ECJ1VB1H102K	C 1000PF, K, 50V	
C1068	ECJ1VF1A225Z	CAPACITOR	
C1069	ECJ0EF1C104Z	C 0.1UF, 16V	
C1070	ECJ0EF1C104Z	C 0.1UF, 16V	
C1071	EEHB0G101R	E 100UF, 4V	
C1072	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1073	ECJ0EF1C104Z	C 0.1UF, 16V	
C1074	ECJ0EF1C104Z	C 0.1UF, 16V	
C1075	ECJ1VF1A225Z	CAPACITOR	
C1076	F2G1C4700014	CAPACITOR	
C1079	ECJ0EF1C104Z	C 0.1UF, 16V	
C1080	ECJ0EF1C104Z	C 0.1UF, 16V	
C1081	ECJ0EF1C104Z	C 0.1UF, 16V	
C1083	ECJ0EF1C104Z	C 0.1UF, 16V	
C1085	ECJ0EF1C104Z	C 0.1UF, 16V	
C1088	ECJ0EF1C104Z	C 0.1UF, 16V	
C1089	F2G0J4700010	CAPACITOR	
C1090	ECJ0EF1C104Z	C 0.1UF, 16V	
C1091	F2G0J4700010	CAPACITOR	
C1093	ECJ1VF1A105Z	C 1UF, Z, 50V	
C1094	ECJ0EF1C104Z	C 0.1UF, 16V	
C1095	ECJ0EF1C104Z	C 0.1UF, 16V	
C1096	ECJ0EF1C104Z	C 0.1UF, 16V	
C1097	ECJ0EF1C104Z	C 0.1UF, 16V	
C1098	ECJ0EF1C104Z	C 0.1UF, 16V	
C1099	ECJ1VF1H333Z	C 0.033UF, 50V	
C1101	ECJ0EF1C104Z	C 0.1UF, 16V	
C1102	ECJ0EF1C104Z	C 0.1UF, 16V	
C1104	ECJ0EF1C104Z	C 0.1UF, 16V	
C1105	ECJ0EF1C104Z	C 0.1UF, 16V	
C1106	ECJ1VC1H471J	C 470PF, J, 50V	
C1107	ECJ0EF1C104Z	C 0.1UF, 16V	
C1108	ECJ1VC1H100C	C 10PF, 50V	
C1109	ECJ0EF1C104Z	C 0.1UF, 16V	
C1110	ECJ1VC1H100C	C 10PF, 50V	
C1111	ECJ0EF1C104Z	C 0.1UF, 16V	
C1112	ECJ0EF1C104Z	C 0.1UF, 16V	
C1113	F2G0J4700010	CAPACITOR	
C1114	ECJ0EF1C104Z	C 0.1UF, 16V	
C1115	ECJ0EF1C104Z	C 0.1UF, 16V	
C1116	F2G0J4700010	CAPACITOR	
C1118	F2G0J1010013	CAPACITOR	
C1119	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1120	F2G1E3300010	CAPACITOR	
C1121	F2G1E3300010	CAPACITOR	
C1122	ECJ0EB1C103K	C 0.01UF, 16V	
C1123	ECJ0EF1C104Z	C 0.1UF, 16V	
C1124	ECJ0EB1C103K	C 0.01UF, 16V	
C1125	ECJ0EF1C104Z	C 0.1UF, 16V	
C1126	ECJ0EB1C103K	C 0.01UF, 16V	
C1127	ECJ0EF1C104Z	C 0.1UF, 16V	
C1128	FlJ1E105A197	CAPACITOR	
C1129	ECJ0EF1C104Z	C 0.1UF, 16V	
C1130	ECJ0EF1C104Z	C 0.1UF, 16V	
C1131	ECJ0EF1C104Z	C 0.1UF, 16V	
C1132	ECJ0EF1C104Z	C 0.1UF, 16V	
C1133	ECJ0EF1C104Z	C 0.1UF, 16V	
C1134	ECJ0EF1C104Z	C 0.1UF, 16V	
C1135	ECJ0EF1C104Z	C 0.1UF, 16V	
C1136	ECJ0EF1C104Z	C 0.1UF, 16V	
C1137	ECJ0EF1C104Z	C 0.1UF, 16V	
C1138	ECJ0EF1C104Z	C 0.1UF, 16V	
C1139	ECJ0EF1C104Z	C 0.1UF, 16V	
C1140	ECJ0EF1C104Z	C 0.1UF, 16V	
C1141	ECJ0EF1C104Z	C 0.1UF, 16V	
C1142	ECJ0EF1C104Z	C 0.1UF, 16V	
C1143	ECJ0EF1C104Z	C 0.1UF, 16V	
C1144	ECJ0EF1C104Z	C 0.1UF, 16V	
C1145	ECJ0EF1C104Z	C 0.1UF, 16V	
C1146	ECJ0EF1C104Z	C 0.1UF, 16V	
C1147	ECJ0EF1C104Z	C 0.1UF, 16V	
C1148	ECJ0EF1C104Z	C 0.1UF, 16V	
C1149	ECJ0EF1C104Z	C 0.1UF, 16V	
C1150	ECJ0EF1C104Z	C 0.1UF, 16V	
C1151	ECJ0EF1C104Z	C 0.1UF, 16V	
C1152	ECJ0EF1C104Z	C 0.1UF, 16V	
C1153	ECJ0EF1C104Z	C 0.1UF, 16V	
C1154	ECJ0EF1C104Z	C 0.1UF, 16V	
C1155	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1156	ECJ0EF1C104Z	C 0.1UF, 16V	
C1157	ECJ0EF1C104Z	C 0.1UF, 16V	
C1158	ECJ0EF1C104Z	C 0.1UF, 16V	
C1159	ECJ0EF1C104Z	C 0.1UF, 16V	
C1160	ECJ0EF1C104Z	C 0.1UF, 16V	
C1161	ECJ0EF1C104Z	C 0.1UF, 16V	
C1162	F2G1E3300010	CAPACITOR	
C1163	ECJ0EF1C104Z	C 0.1UF, 16V	
C1164	F2G1C4700014	CAPACITOR	
C1165	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1166	F1J1E105A197	CAPACITOR	
C1167	F1J1E105A197	CAPACITOR	
C1168	F1J1E105A197	CAPACITOR	
C1169	F2G1E3300010	CAPACITOR	
C1170	F2G1E3300010	CAPACITOR	
C1171	F2G1E3300010	CAPACITOR	
C1172	ECJ1VF1A105Z	C 1UF, Z, 50V	
C1173	ECJ1VF1A105Z	C 1UF, Z, 50V	
C1174	ECJ1VF1A105Z	C 1UF, Z, 50V	
C1175	ECJ0EF1C104Z	C 0.1UF, 16V	
C1176	ECJ0EF1C104Z	C 0.1UF, 16V	
C1177	ECJ0EF1C104Z	C 0.1UF, 16V	
C1179	ECJ0EF1C104Z	C 0.1UF, 16V	
C1180	ECJ0EF1C104Z	C 0.1UF, 16V	
C1181	ECJ0EF1C104Z	C 0.1UF, 16V	
C1182	ECJ0EF1C104Z	C 0.1UF, 16V	
C1183	ECJ0EF1C104Z	C 0.1UF, 16V	
C1184	ECJ0EF1C104Z	C 0.1UF, 16V	
C1185	ECJ0EF1C104Z	C 0.1UF, 16V	
C1186	ECJ0EF1C104Z	C 0.1UF, 16V	
C1187	ECJ0EF1C104Z	C 0.1UF, 16V	
C1188	ECJ0EF1C104Z	C 0.1UF, 16V	
C1189	ECJ0EF1C104Z	C 0.1UF, 16V	
C1190	ECJ0EF1C104Z	C 0.1UF, 16V	
C1191	ECJ0EF1C104Z	C 0.1UF, 16V	
C1192	ECJ0EF1C104Z	C 0.1UF, 16V	
C1193	ECJ0EF1C104Z	C 0.1UF, 16V	
C1194	ECJ0EF1C104Z	C 0.1UF, 16V	
C1195	ECJ0EF1C104Z	C 0.1UF, 16V	
C1196	ECJ0EB1C103K	C 0.01UF, 16V	
C1197	ECJ0EF1C104Z	C 0.1UF, 16V	
C1198	ECJ0EF1C104Z	C 0.1UF, 16V	
C1199	ECJ0EF1C104Z	C 0.1UF, 16V	
C1200	ECJ0EF1C104Z	C 0.1UF, 16V	
C1201	ECJ0EF1C104Z	C 0.1UF, 16V	
C1202	ECJ0EF1C104Z	C 0.1UF, 16V	
C1203	ECJ0EF1C104Z	C 0.1UF, 16V	
C1204	ECJ0EF1C104Z	C 0.1UF, 16V	
C1205	ECJ0EF1C104Z	C 0.1UF, 16V	
C1206	ECJ0EF1C104Z	C 0.1UF, 16V	
C1207	ECJ0EF1C104Z	C 0.1UF, 16V	
C1208	ECJ0EF1C104Z	C 0.1UF, 16V	
C1209	ECJ0EF1C104Z	C 0.1UF, 16V	
C1210	ECJ0EF1C104Z	C 0.1UF, 16V	
C1212	ECJ0EF1C104Z	C 0.1UF, 16V	
C1213	ECJ0EF1C104Z	C 0.1UF, 16V	
C1214	ECJ1VF1A225Z	CAPACITOR	
C1217	ECJ1VF1A105Z	C 1UF, Z, 50V	
C1218	F1J1E105A197	CAPACITOR	
C1220	ECJ0EB1H102K	C 1000PF, 50V	
C1221	F1J0J106A013	CAPACITOR	
C1222	F2G0J4700010	CAPACITOR	
C1223	F2G1A221A030	CAPACITOR	
C1224	ECJ0EF1C104Z	C 0.1UF, 16V	
C1225	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1226	ECJ0EF1C104Z	C 0.1UF, 16V	
C1227	ECJ0EF1C104Z	C 0.1UF, 16V	
C1228	ECJ0EF1C104Z	C 0.1UF, 16V	
C1229	ECJ0EF1C104Z	C 0.1UF, 16V	
C1230	ECJ0EF1C104Z	C 0.1UF, 16V	
C1231	ECJ0EF1C104Z	C 0.1UF, 16V	
C1232	ECJ0EF1C104Z	C 0.1UF, 16V	
C1233	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1234	ECJ0EF1C104Z	C 0.1UF, 16V	
C1235	ECJ0EF1C104Z	C 0.1UF, 16V	
C1236	ECJ0EF1C104Z	C 0.1UF, 16V	
C1237	ECJ0EF1C104Z	C 0.1UF, 16V	
C1238	ECJ0EF1C104Z	C 0.1UF, 16V	
C1239	ECJ0EF1C104Z	C 0.1UF, 16V	
C1240	ECJ0EF1C104Z	C 0.1UF, 16V	
C1241	ECJ0EF1C104Z	C 0.1UF, 16V	
C1242	ECJ0EF1C104Z	C 0.1UF, 16V	
C1243	ECJ0EF1C104Z	C 0.1UF, 16V	
C1244	ECJ0EF1C104Z	C 0.1UF, 16V	
C1246	ECJ0EF1C104Z	C 0.1UF, 16V	
C1247	ECJ0EF1C104Z	C 0.1UF, 16V	
C1250	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C1251	ECJ3YF1C475Z	C 4.7UF, Z, 16V	
C1252	ECJ3YF1C475Z	C 4.7UF, Z, 16V	
C1253	ECJ0EF1C104Z	C 0.1UF, 16V	
C1254	ECJ0EF1C104Z	C 0.1UF, 16V	
C1255	ECJ0EF1C104Z	C 0.1UF, 16V	
C1256	ECJ1VB1C333K	CAPACITOR	
C1257	ECJ1VB1C333K	CAPACITOR	
C1258	ECJ1VB1C333K	CAPACITOR	
C1259	ECJ1VB1C333K	CAPACITOR	
C1260	ECJ1VB1C333K	CAPACITOR	
C1261	F1J1E105A197	CAPACITOR	
C1262	ECJ1VF1A225Z	CAPACITOR	
C1801	F1J0J106A013	CAPACITOR	
C1802	ECJ0EF1C104Z	C 0.1UF, 16V	
C1803	ECJ0EF1C104Z	C 0.1UF, 16V	
C1804	ECJ0EF1C104Z	C 0.1UF, 16V	
C1805	F1J0J106A013	CAPACITOR	
C1806	ECJ0EF1C104Z	C 0.1UF, 16V	
C1807	ECJ0EF1C104Z	C 0.1UF, 16V	
C1808	ECJ0EF1C104Z	C 0.1UF, 16V	
C1809	ECJ0EF1C104Z	C 0.1UF, 16V	
C1810	ECJ0EF1C104Z	C 0.1UF, 16V	
C1811	ECJ0EF1C104Z	C 0.1UF, 16V	
C1812	ECJ0EF1C104Z	C 0.1UF, 16V	
C1813	ECJ0EF1C104Z	C 0.1UF, 16V	
C1814	ECJ0EF1C104Z	C 0.1UF, 16V	
C1815	ECJ0EF1C104Z	C 0.1UF, 16V	
C1816	F1J0J106A013	CAPACITOR	
C1817	ECJ0EF1C104Z	C 0.1UF, 16V	
C1818	ECJ0EF1C104Z	C 0.1UF, 16V	
C1819	ECJ1VCLH101J	C 100PF, J, 50V	
C1820	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1821	ECJ1VB1C104K	CAPACITOR	
C1822	EEEFK1C101P	CAPACITOR	
C1823	EEEFK1C101P	CAPACITOR	
C1824	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1825	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1826	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1827	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1828	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1829	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1830	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1831	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1832	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1833	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1834	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1835	ECJ1VB0J105K	C 1UF, Z, 6.3V	
C1836	F2G0J4700010	CAPACITOR	
C1837	F2G0J4700010	CAPACITOR	
C1838	ECJ0EF1C104Z	C 0.1UF, 16V	
C1839	ECJ0EF1C104Z	C 0.1UF, 16V	
C1840	F1J0J106A013	CAPACITOR	
C1841	ECJ0EF1C104Z	C 0.1UF, 16V	
C1842	ECJ1VB0J474K	CAPACITOR	
C1843	F1J0J106A013	CAPACITOR	
C1844	F1J0J106A013	CAPACITOR	
C1845	F1J0J106A013	CAPACITOR	
C1846	F1J0J106A013	CAPACITOR	
C1847	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1848	ECJ0EF1C104Z	C 0.1UF, 16V	
C1849	ECJ0EF1C104Z	C 0.1UF, 16V	
C1851	ECJ0EF1C104Z	C 0.1UF, 16V	
C2501	ECJ1VF1A105Z	C 1UF, Z, 50V	
C2502	ECJ1VB1C104K	CAPACITOR	
C2503	FLJ0J106A013	CAPACITOR	
C2504	ECJ0EF1C104Z	C 0.1UF, 16V	
C2505	ECJ0EF1C104Z	C 0.1UF, 16V	
C2506	ECJ3YF1C475Z	C 4.7UF, Z, 16V	
C2509	FLJ0J106A013	CAPACITOR	
C2510	ECJ0EB1C103K	C 0.01UF, 16V	
C2511	ECJ0EB1H102K	C 1000PF, 50V	
C2512	ECJ0EB1C103K	C 0.01UF, 16V	
C2513	ECJ0EF1C104Z	C 0.1UF, 16V	
C2515	ECJ1VB1H102K	C 1000PF, K, 50V	
C2516	ECJ0EF1C104Z	C 0.1UF, 16V	
C2517	ECJ1VB1H472K	C 4700PF, K, 50V	
C2518	ECJ1VF1C105Z	C 0.01UF, Z, 16V	
C2519	EEHBL1A101P	E 100UF, 10V	
C2520	ECJ0EF1C104Z	C 0.1UF, 16V	
C2521	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C2522	ECJ1VF1A105Z	C 1UF, Z, 50V	
C2525	ECJ1VB1H102K	C 1000PF, K, 50V	
C2526	ECJ1VF1A225Z	CAPACITOR	
C2527	ECJ0EF1C104Z	C 0.1UF, 16V	
C2528	F2G0J4700024	CAPACITOR	
C2529	FLJ0J106A013	CAPACITOR	
C2531	FLJ0J106A013	CAPACITOR	
C2537	FLJ0J106A013	CAPACITOR	
C2538	FLJ0J106A013	CAPACITOR	
C2540	FLJ0J106A013	CAPACITOR	
C2541	FLJ0J106A013	CAPACITOR	
C2543	FLJ0J106A013	CAPACITOR	
C2544	FLJ0J106A013	CAPACITOR	
C2546	ECJ1VB1H102K	C 1000PF, K, 50V	
C2547	ECJ1VF1A225Z	CAPACITOR	
C2548	ECJ1VF1A225Z	CAPACITOR	
C2549	ECJ1VF1C105Z	C 0.01UF, Z, 16V	
C2550	ECJ1VF1C105Z	C 0.01UF, Z, 16V	
C3001	ECJ3YF1C475Z	C 4.7UF, Z, 16V	
C3002	ECJ0EF1C104Z	C 0.1UF, 16V	
C3003	F2G0J4700010	CAPACITOR	
C3004	ECJ0EF1C104Z	C 0.1UF, 16V	
C3501	F4D272750005	CAPACITOR	
C3502	F4D272750005	CAPACITOR	
C3503	F4D272750005	CAPACITOR	
C9101	ECQU2A684MLA	P 0.68UF, 250V	△
C9102	F1BAH102A024	CAPACITOR	△
C9103	F1BAH102A024	CAPACITOR	△
C9618	F0C2J1540004	CAPACITOR	
C9619	F0C2J1540004	CAPACITOR	
[OTHERS]			
A1	K1MY06BA0008	6P CONNECTOR	
A2	K1KA02BA0047	2P CONNECTOR	
A3	K1KA02BA0047	2P CONNECTOR	
A4	K1KA06BA0014	6P CONNECTOR	
A5	K1KA04BA0014	4P CONNECTOR	
A6	K1KA03BA0014	3P CONNECTOR	
A7	K1KA03BA0014	3P CONNECTOR	
A8	K1KA03BA0014	3P CONNECTOR	
A9	K1KA03BA0047	3P CONNECTOR	
A10	K1KA03BA0014	3P CONNECTOR	
A11	K1KA04BA0047	4P CONNECTOR	
A12	K1KA05BA0047	5P CONNECTOR	
A13	K1MN30BA0130	30P CONNECTOR	
A14	K1MN30BA0131	30P CONNECTOR	
A15	K1MN30BA0130	30P CONNECTOR	
A18	K1KA07BA0047	7P CONNECTOR	
A21	K1KB60A00098	CONNECTOR	
A22	K1KA10BA0014	10P CONNECTOR	
A24	K1KA04BA0047	4P CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
J1	K1NA09E00077	9P CONNECTOR	
J2	K1KA60A00133	CONNECTOR	
J3	K1KA02BA0047	2P CONNECTOR	
P1	K1KA02A00736	2P CONNECTOR	
P2	K1KA03AA0163	3P CONNECTOR	
P3	K1KA12AA0082	12P CONNECTOR	
R1	K1KA06BA0014	6P CONNECTOR	
F9101-1	EYF52BCY	FUSE	
F9101-2	EYF52BCY	FUSE	
F9101	K5D502BNA005	FUSE	△
JK2501	K1FY115B0002	RGB IN TERMINAL	
JK2502	K1U412B00006	S-VIDEO/VIDEO IN TERMINAL	
JK9101	K2AZ3B000002	AC INLET	△
JP1	ERJ3GEY0R00	RESISTOR	
JS1001	ERJ6GEY0R00	RESISTOR	
JS1002	ERJ6GEY0R00	RESISTOR	
JS1003	ERJ6GEY0R00	RESISTOR	
JS1008	ERJ6GEY0R00	RESISTOR	
JS1009	ERJ6GEY0R00	RESISTOR	
MC101	EUMJ23P1	MODULE (PFC)	
PC101	B3PBA0000396	PROTECT	△
PC102	B3PBA0000396	PROTECT	△
PC3001	B3JB00000023	SENSOR (DAYLIGHT)	
RM3001	B3RAD0000126	REMOTE CONTROL RECEIVER	
SW1001	EVPAAB02K	SWITCH	
SW1002	EVPAAB02K	SWITCH	
T101	ETS27BF167AG	TRANS	△
VR102	EVM1DSX30B25	VOLUME	
X1001	H0J270500105	CRYSTAL	
X1002	H0J983400016	CRYSTAL	
X1801	H1A6605B0008	CRYSTAL	
X1802	H1A1225B0015	CRYSTAL	
ZA201	K9ZZ00000424	EARTH LUG	
ZA9101	K9ZZ00000424	TERMINAL	
ZD101	MA8062MTX	DIODE	
ZD103	MAZ82000ML	DIODE	
ZD104	MAZ80510ML	DIODE	
ZD105	MAZ80510ML	DIODE	
ZD106	MAZ80510ML	DIODE	
RTL	TNPA3682	CIRCUIT BOARD K	
RTL	TNPA3728	CIRCUIT BOARD R	
RTL	TNPA3729	CIRCUIT BOARD Z	
RTL	TNPA3730	CIRCUIT BOARD J	
RTL	TXANP03VKB5	CIRCUIT BOARD P	
RTL	TXANP01VKB5	CIRCUIT BOARD A	PT-P1SDU/E
RTL	TXANP01QBSZ	CIRCUIT BOARD A	PT-P1SDEA
	TXANP02VKB5	BALLAST UNIT ASSY	